रजिस्ट्री सं॰ डी॰ एल॰-33004/99





ottendende असाधारण

PART III—Section 4 प्राधिकार से प्रकाशित

EXTRAORDINARY

भाग III—खण्ड 4

PUBLISHED BY AUTHORITY

नई दिल्ली, सोमवार, नवम्बर 7, 2016/कार्तिक 16, 1938

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NEW DELHI, MONDAY, NOVEMBER 7, 2016/KARTIKA 16, 1938

भारतीय चिकित्सा केन्द्रीय परिषद्

नई दिल्ली, 7 नवम्बर, 2016

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REGD. NO. D. L.-33004/99

12. (1) Number of papers and marks for theory and practical or viva-voce:

. (1) Number of papers and marks for the	Number o	f hours of to	aching		tails of maxi	Practical	Total ·
	Theory	Practical	Total _	Number of papers	Theory	or Viva-	Total
				Two	200	T	200
Professional Padarth Vigyan evam Ayurved ka Itihas	100		100		100		100
	200	W	200	One	200	100	300
Sanskrit	200	200	400	Two	200	100	300
. Kriya Sharir	300	200	500	Two	100	50	150
. Rachana Sharir . Maulik Siddhant evam Asthanga	150		150	One	100	30	
Hridyaya (Sutra Sthan)		1 19 1 1 1				200	400
2 nd Professional	200	200	400	Two	200	100	300
Dravyaguna Vigyan Roga Nidan evam Vikriti Vigyan	200	200	400	Two (01 – Pathology 01- Ayurveda	200		
N B g	200	200	400	Two	200	200	400
Rasashastra evam Bhaishjya Kalpana	200	200	200	One	100	50	150
4. Charak Samhita (Purvardh)	200		200			e ^r	-
 3rd Professional Agad Tantra, Vyavhar Ayurved evam 	200	100	300	One	100	50	150
Vidhi Vaidyak		100	300	Two	200	100	300
2. Swasthavritta and Yoga	200	200	400		200	100	300
3. Prasuti evam Striroga	200		20		100	50	150
4. Balroga	200	100	20	9	100	50	150
5. Charak Samhita (Uttarardh)	200						
Final Professional	200	200	50	0 Two	200		300
1. Kayachikitsa	300	V		-	- 10	0 50	150
2. Panchakarma	100			50 Two		0 100	30
3. Shalya Tantra	200	150	3.			100	30
	200	0 15	0 3	50 Tw			
Shalakya Tantra Research Methodology and Medic		0		50 On	e 5	0	5

NOTE: The period of theory and practical shall not be less than sixty minutes (one hour) and the duration of the practical of clinical subjects and Rachana Sharir (Dissection) shall be of at least one hundred and twenty minutes (two hours).

(2) Clinical training of the students shall start from third professional onwards.

(3) The clinical training in the hospital attached with college to the students shall be as follows:-

(i) Kayachikitsa (Indoor and Outdoor):		Eighteen Months
(a) Kayachikitsa (Samanya)	-	Six months
	-	Three months
(b) Manasroga	. 1	Three months
(c) Rasayan and Vajikaran	-	Three months
(d) Panchakarma		Three months
(e) Rog Nidan evam Vikriti Vigyan		Nine Months
(ii) Shalya (Indoor and Outdoor):		Three months (minimum one-month in Operation
(a) Shalya (Samanya)	-	Theatre)
Anychaetra Karma)	_	Three months (minimum one-month in Operation Theatre)
(b) Shalya (Kshar and Anushastra Karma)		Two months

(c) Ksharsutra

Two months

CENTRAL COUNCIL OF INDIAN MEDICINE NEW DELHI

SYLLABUS OF AYURVEDACHARYA (BAMS) COURSE

INDEX

1ST PROFESSIONAL

1.1	PADARTHA VIGYAN AND AYURVED ITIHAS	2-6
1.2	SANSKRIT	7-8
1.3	KRIYA SHARIR	9-14
1.4	RACHANA SHARIR	15-18
1.5	MAULIK SIDDHANT AVUM ASTANG HRIDYA	19

Course Part: Proff I Separate Passing Head: No, Min: 0, Max: 1050

Term: Proff I Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0, Max:1050

The papers for Proff I - Proff I are classified into following groups:

BAMS105 PR

1.Compulsory Group (Min Papers: 11, Max Papers: 11, Separate Passing Head: No, Max. Marks: 0) Select minimum 11 paper(s) Select maximum 11 paper(s) Papers: Padarth Vigyan evam Ayurved ka Itihas BAMS1011 BAMS101 II Padarth Vigyan evam Ayurved ka Itihas Sanskrit BAMS102 Kriya Sharir Paper I BAMS103 I Kriya Sharir Paper II BAMS103 II Kriva Sharir Practical BAMS103 PR BAMS104 I Rachana Sharir Paper I Rachana Sharir Paper II BAMS104 II Rachana Sharir Practical BAMS104 PR Maulik Siddhant evam Asthanga Hridyaya (Sutra Sthan) **BAMS105**

Maulik Siddhant evam Asthanga Hridyaya (Sutra Sthan) Practical

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1





PADARTHA VIGYAN EVUM AYURVEDA ITIHAS 1.1 (Philosophy and History of Ayurveda)

Theory- Two papers- 200 marks (100 each paper) Total teaching hours: 150 hours

PAPER-I

Padartha Vigyanam

100marks

PART A

50 marks

1.Ayurveda Nirupana

- 1.1 Lakshana of Ayu, composition of Ayu.
- 1.2 Lakshana of Ayurveda.
- 1.3 Lakshana and classification of Siddhanta.
- 1.4 Introduction to basic principles of Ayurveda and their significance.

2. Ayurveda Darshana Nirupana

- 2.1 Philosophical background of fundamentals of Ayurveda.
- 2.2 Etymological derivation of the word "Darshana". Classification and general introduction to schools of Indian Philosophy with an emphasis on: Nyaya, Vaisheshika, Sankhya and Yoga.
- 2.3 Ayurveda as unique and independent school of thought (philosophical individuality of Ayurveda).
- 2.4 Padartha: Lakshana, enumeration and classification, Bhava and Abhava padartha, Padartha according to Charaka (Karana-Padartha).

3. Dravya Vigyaniyam

- 3.1 Dravya: Lakshana, classification and enumeration.
- creation the theories regarding Various 3.2 Panchabhuta: Taittiriyopanishad, Nyaya-Vaisheshika, Sankhya-Yoga, Sankaracharya, Charaka and Susruta), Lakshana and qualities of each Bhoota.
- 3.3 Kaala: Etymological derivation, Lakshana and division / units, significance in Ayurveda.
- 3.4 Dik: Lakshana and division, significance in Ayurveda.
- 3.5 Atma:Lakshana, classification, seat, Gunas, Linga according to Charaka, the method / process of knowledge formation (atmanah jnasya pravrittih).
- 3.6 Purusha: as mentioned in Ayurveda Ativahikapurusha/ Sukshmasharira/ Rashipurusha/ Chikitsapurusha/ Karmapurusha/ Shaddhatvatmakapurusha.
- 3.7 Manas: Lakshana, synonyms, qualities, objects, functions, dual nature of mind (ubhayaatmakatvam), as a substratum of diseases, penta-elemental nature (panchabhutatmakatvam).
- 3.8 Role of Panchamahabhuta and Triguna in Dehaprakriti and Manasaprakriti respectively.
- 3.9 Tamas as the tenth Dravya.
- 3.10 Practical study/application in Ayurveda.

4. Gunavigyaniyam

- 4.1 Etymological derivation, classification and enumeration according to Nyaya-Vaisheshika and Charaka, Artha, Gurvadiguna, Paradiguna, Adhyatmaguna.
- 4.2 Lakshana and classification of all the 41 gunas.
- 4.3 Practical / clinical application in Ayurveda.

5. Karma Vigyaniyam

- **5.1** Lakshana, classification in Nyaya.
- 5.2 Description according to Ayurveda.
- 5.3 Practical study/ application in Ayurveda.

6. Samanya Vigyaniyam

- 6.1 Lakshana, classification.
- 6.2 Practical study/ application with reference to Dravya, Guna and Karma.

7. Vishesha Vigyaniyam

- 7.1 Lakshana, classification.
- 7.2 Practical study/ application with reference to Dravya, Guna and Karma.
- 7.3 Significance of the statement "Pravrittirubhayasya tu".

8. Samavaya Vigyaniyam

- 8.1 Lakshana
- 8.2 Practical study /clinical application in Ayurveda.

9. Abhava Viqyaniyam

- 9.1 Lakshana, classification
- 9.2 Clinical significances in Ayurveda.

PAPER II

Padartha Vigyan and Ayurveda Itihas

100 marks

PART A - Pramana/ Pariksha- Vigyaniyam

75 marks

1. Pariksha

- 1.1. Definition, significance, necessity and use of Pariksha.
- 1.2. Definition of Prama, Prameya, Pramata, Pramana.
- 1.3. Significance and importance of *Pramana*, Enumeration of *Pramana* according to different schools of philosophy.
- 1.4. Four types of methods for examination in *Ayurveda* (Chaturvidha-Parikshavidhi), *Pramana* in Ayurveda.
- 1.5. Subsudation of different Pramanas under three Pramanas.
- Practical application of methods of examination (Parikshavidhi) in treatment (Chikitsa).

2. Aptopdesha Pariksha/ Pramana

- 2.1. Lakshana of Aptopadesha, Lakshana of Apta.
- 2.2. Lakshana of Shabda, and its types.
- 2.3. Shabdavritti-Abhidha, Lakshana, Vyanjana and Tatparyakhya. Shaktigrahahetu.
- 2.4. Vaakya: Characteristics, Vaakyarthagyanahetu- Aakanksha, Yogyata, Sannidhi.

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3. Pratyaksha Pariksha/ Pramana

3.1. Lakshana of Pratyaksha, types of Pratyaksha- Nirvikalpaka- Savikalpaka with description, description of Laukika and Alaukika types and their further classification.

3.2. Indriya-prapyakaritvam, six types of Sannikarsha.

3.3. Indriyanam lakshanam, classification and enumeration of Indriya. Description of Panchapanchaka, Penta-elemental nature of Indriya by Panchamahabhuta (Panchabhautikatwa of Indriya) and similarity in sources (Tulyayonitva) of Indriya.

3.4. Trayodasha Karana, dominance of Antahkaran.

3.5. Hindrances in direct perception (*pratyaksha-anupalabdhikaaran*), enhancement of direct perception (Pratyaksha) by various instruments/ equipments, necessity of other Pramanas in addition to Pratyaksha.

3.6. Practical study/ application of Pratyaksha in physiological, diagnostic, therapeutics and research grounds.

4. Anumanapariksha/Pramana

4.1. Lakshana of Anumana. Introduction of Anumiti, Paramarsha, Vyapti, Hetu, Sadhya, Paksha, Drishtanta. Types of Anumana mentioned by Charaka and Nyayadarshana.

4.2. Characteristic and types of Vyapti.

4.3. Lakshana and types of Hetu, description of Ahetu and Hetwabhasa.

4.4. Characteristic and significance of Tarka.

4.5. Practical study/ application of Anumanapramana in physiological, diagnostic, therapeutics and research.

5. Yuktipariksha/ Pramana

- 5.1. Lakshana and discussion.
- 5.2. Importance in Ayurveda.
- 5.3. Practical study and utility in therapeutics and research.

6. Upamana Pramana

- 6.1 Lakshana.
- 6.2 Application in therapeutics and research.

7. Karya- Karana Siddhanta (Cause and Effect Theory)

- 7.1. Lakshana of Karya and Karana. Types of Karana.
- 7.2. Significance of Karya and Karana in Ayurveda.
- 7.3. Different opinions regarding the manifestation of Karya from Karana: Satkaryavada, Asatkaryavada, Parinamavada, Arambhavada, Paramanuvada, Vivartavada, Kshanabhangurvada, Swabhavavada, Pilupaka, Pitharpaka, Anekantavada, Swabhavoparamavada.

PART B - Ayurved Itihas

25 marks

- Etymological derivation (Vyutpatti), syntactical derivation (Niruktti) and definition of the word Itihas, necessity of knowledge of history, its significance and utility, means and method of history, historical person (Vyakti), subject (Vishaya), time period (Kaal), happening (Ghatana) and their impact on Ayurveda.
- Introduction to the authors of classical texts during Samhitakaal and their contribution: Atreya, Dhanwantari, Kashyapa, Agnivesha, Sushruta, Bhela, Harita, Charaka,

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Dridhabala, Vagbhata, Nagarjuna, Jivaka.

- Introduction to the commentators of classical Samhitas Bhattaraharicchandra, Jejjata, Chakrapani, Dalhana, Nishchalakara, Vijayarakshita, Gayadas, Arunadutta, Hemadri, Gangadhara, Yogindranath Sen, Haranachandra, Indu.
- 4. Introduction to the authors of compendiums (Granthasamgrahakaala) Bhavmishra, Sharngadhara, Vrinda, Madhavakara, Shodhala, Govinda Das (Author of Bhaishajyaratnawali), Basavraja.
- Introduction to the authors of Modern era –Gana Nath Sen, Yamini Bhushan Rai, Shankar Dajishastri Pade, Swami Lakshmiram, Yadavji Tikramji, Dr. P. M. Mehta, Ghanekar, Damodar Sharma Gaur, Priyavrat Sharma.
- Globalization of Ayurveda Expansion of Ayurveda in Misra (Egypt), Sri Lanka, Nepal other nations.
- 7.
- Developmental activities in Ayurveda in the post-independence period, development in educational trends.
- b) Establishment of different committees, their recommendations.
- c) Introduction to and activities of the following Organizations: Department of AYUSH, Central Council of Indian Medicine, Central Council for Research in Ayurvedic Sciences, Ayurvedic Pharmacopeia commission, National Medicinal Plants Board, Traditional Knowledge Digital Library (TKDL)
- d) Introduction to the following National Institutions:
 - National Institute of Ayurved, Jaipur.
 - IPGT&RA, Gujrat Ayurved University, Jamnagar.
 - Faculty of Ayurved, BHU, Varanasi.
 - Rashtriya Ayurveda Vidyapeetha, New Delhi.
- Drug and Cosmetic Act.
- 8. Introduction to national & international popular journals of Ayurveda.
- 9. Introduction to activities of WHO in the promotion of Ayurved.

Reference Books:-

	A).	Pad	artha	Vigy	an:-
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- Padarthavigyan
 Ayurvediya Padartha Vigyana
- 3. Ayurved Darshana
- 4. Padartha Vigyana
- 5. Padartha Vigyana
- 6. Sankhyatantwa Kaumadi
- 7. Psycho Pathology in Indian Medicine
- 8. Charak Evum Sushrut ke Darshanik Vishay ka Adhyayan
- 9. Ayurvediya Padartha Vigyana
- 10. Padartha Vigyana
- 11. Padartha Vigyana
- Ayurvediya Padartha Vigyana
- 13. Ayurvediya Padartha Vigyan Parichaya
- 14. Ayurvediya Padartha Darshan

Acharya Ramraksha Pathak

Vaidya Ranjit Rai Desai Acharya Rajkumar Jain

Kashikar

Balwant Shastri

GajananS hastri

Dr. S.P. Gupta

Prof. Jyotirmitra Acharya

Dr. Ayodhya Prasad Achal

Dr. Vidyadhar Shukla

Dr. Ravidutta Tripathi

Vaidya Ramkrishna Sharma Dhand

Vaidya Banwarilal Gaur

Pandit Shivhare

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15. Scientific Exposition of Ayurveda

Dr. Sudhir Kumar

16. Relevant portions of Charakasamhita, Sushrutasamhita.

B) History of Ayurveda:-

- Upodghata of Kashyapasamhita Paragraph of acceptance of Indian medicine
- 2. Upodghata of Rasa Yogasagar
- 3. Ayurveda Ka Itihas
- 4. Ayurveda Sutra
- 5. History of Indian Medicine (1-3 part)
- 6. A Short history of Aryan Medical Science
- 7. History of Indian Medicine
- 8. Hindu Medicine
- 9. Classical Doctrine of Indian Medicine
- 10. Indian Medicine in the classical age
- 11. Indian Medicine (Osteology)
- 12. Ancient Indian Medicine
- Madhava Nidan and its Chief Commentaries (Chapters highlighting history)
- 14. Ayurveda Ka BrihatItihasa
- 15. Ayurveda Ka VaigyanikaItihasa
- 16. Ayurveda Ka PramanikaItihasa
- 17. History of Medicine in India
- 18. Vedomein Ayurveda
- 19. Vedomein Ayurveda
- 20. Science and Philosophy of Indian Medicine
- 21. History of Indian Medicine from Pre-Mauryan to Kushana Period
- 22. An Appraisal of Ayurvedic Material in Buddhist literature
- 23. Mahayana Granthon mein nihita Ayurvediya Samagri
- 24. Jain Ayurveda Sahitya Ka Itihasa
- 25. Ayurveda- Prabhashaka Jainacharya
- 26. CharakaChintana
- 27. Vagbhata Vivechana
- 28. Atharvaveda and Ayurveda
- 29. Ayurvedic Medicine Past and Present
- 30. Ancient Scientist
- 31. Luminaries of Indian Medicine
- 32. Ayurveda Ke Itihasa Ka Parichaya
- 33. Ayurveda Ke Pranacharya
- 34. Ayurveda Itihasa Parichaya

Rajguru Hem Raj Sharma

Vaidy Hariprapanna Sharma KaviraSuram Chand Rajvaidya Ram Prasad Sharma Dr. GirindrNath Mukhopadhyaya Bhagwat Singh

J. Jolly Zimer

Filiyosa

AcharyaPriyavrata Sharma

Dr. Harnley Dr. P. Kutumbia

Dr. G.J. Mulenbelt

Vaidya Atridev Vidyalankara Acharya Priyavrata Sharma Prof. Bhagwat Ram Gupta Acharya Priyavrata Sharma Vaidya Ram GopalS hastri

Dr. Kapil Dev Dwivedi Dr. K.N. Udupa

Dr. Jyotirmitra

Dr. Jyotirmitra

Dr. RavindraNathTripathi

Dr. Rajendra Prakash Bhatnagar Acharya Raj Kumar Jain

Acharya Priyavrata Sharma Acharya Priyavrata Sharma

Dr. Karambelkara

Pt. Shiv Sharma

Dr. O.P. Jaggi

Dr. K.R. Shrikanta Murthy

Dr. RaviduttaTripathi Ratnakara Shastri

Prof. Banwari Lal Gaur

1.2 संस्कृतम्

THEORY - ONE PAPER - 100 marks

TEACHING HOURS - 90 hours

50 marks

PART-A

संस्कृतव्याकरणाध्ययनम्

- संज्ञाप्रकरणम् 1
 - विभक्त्यर्थाः 2.
 - सन्धिप्रकरणम् (सन्धिविच्छेदः, सन्धिकरणम्) 3.
 - षड्लिंगप्रकरणम् (षब्दरूपाण्येव) 4.
 - धातुप्रकरणम् (धातुरूपाण्येव) 5. (भ्वादिगणीय धातूनां प०च लट्लोट्लडींट्विधिलिङ्लकारेषु रूपाणि)
 - वाच्यप्रयोगाः (कर्तरि कर्मणि भाववाच्यप्रयोगाः) 6.
 - समासप्रकरणम् 7.
 - प्रत्ययाः 8.

(णिच्, क्त, क्तवतु, शतृ, शानच्, तुमुन्, तव्यत्, तृच्, क्त्वा, ल्यप्, ल्युट्, अनीयर्, मतुप्, इनि, तन्, इतच्, अण्, इञ्, इक्, त्व, ता, षन्, इम्, निच्, तः, त्र, दा, धा, तरप्, तमप्, टाप, ङाप)

- अनुवादः 9.
- From English / Hindi / regional language to Sanskrit A)
- From Sanskrit to English / Hindi / regional language B)
- Identification and correction of grammatical errors in the given sentences C)

The sentences for translation should be selected from the under mentioned reference books-

- Laghusiddhanta Kaumudi- Acharya Varadaraja (Commentary by Shri Dhananand 1) Shastry)
- Brihattrayee- (Charaka Samhita, Sushruta Samhita, Ashtanga Hridayam) 2)
- Anuvada Chandrika-Chakradhara Hansa Nautiyal 3)
- Sanskruta Ayurved Sudha- Dr. Banwari Lal Gaur 4)
- Rachananuvada Kaumudi- Dr. Kapildev Dwivedi 5)
- Bhasha Sopanam- Published by Rashtreeya Samskruta Samsthanam, New Delhi 6)

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भाषाध्ययनम

- आयुर्वेदार्षग्रन्थाध्ययन×ाÿंमः—Stepwise method of study of Ayurveda Arsha 25 marks 1-
- Granthas (Sushruta Samhita, Shareera Sthanam, Chapter-4) 1/2
- वैद्यकीय-सुभाषितसाहित्यम् (अध्यायाः 1–10) 2-

15 marks

1/2

प०चतन्त्रम्-अपरीक्षितकारकम् (क्षपणक कथातः मूर्खपण्डितकथापर्यन्तम् 3-

10 marks

प०चकथाः) 1/2

REFERENCE BOOKS-

- 1.) Sushruta Samhita, Shareera Sthanam, Chapter-4
- 2.) Prabhashanam Work Book, Su.sam.chap.4 Published by-AYURVEDA ACADEMY® BANGALORE; Email-ayuacademy@gmail.com
- Vaidyakeeya Subhashita Sahityam Dr. Bhaskara Govinda Ghanekar 3.)
- 4.) Panchatantra-(Apareekshitakarakam) -Pt. Vishnu Sharma

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1.3 KRIYA SHARIR (PHYSIOLOGY)

Theory-Two Papers-200 Marks (100 marks each) Teaching hours-180 hours

100 marks

PAPER- I

PART- A

50 marks

1. Conceptual study of fundamental principles of Ayurvediya Kriya Sharir e.g -Panchamahabhuta, Tridosha, Triguna, Loka-Purusha Samya, Samanya-Vishesha. Description of basics of Srotas.

2. Definition and synonyms of the term Sharir, definition and synonyms of term Kriya, description of Sharir Dosha and Manasa Dosha. Mutual relationship between Triguna-Tridosha & Panchmahabhuta. Difference between Shaarir and Sharir. Description of the components of Purusha and classification of Purusha, role of Shatdhatupurusha in Kriya Sharira and Chikitsa.

3. Dosha- General description of Tridosha. Inter relationship between Ritu-Dosha-Rasa-Guna. Biological rhythms of Tridosha on the basis of day-night-age-season and food intake. Role of Dosha in the formation of Prakriti of an individual and in maintaining of health. Prakrita and Vaikrita Dosha.

4. Vata Dosha: Vyutpatti (derivation), Nirukti (etymology) of the term Vata, general locations, general properties and general functions of Vata, five types of Vata (Prana, Udana, Samana, Vyana, Apana) with their specific locations, specific properties, and specific functions.

Respiratory Physiology in Ayurveda, Physiology of speech in Ayurveda.

5. Pitta Dosha: Vyutpatti, Nirukti of the term Pitta, general locations, general properties and general functions of Pitta, five types of Pitta (Pachaka, Ranjaka, Alochaka, Bhrajaka, Sadhaka) with their specific locations, specific properties, and specific functions. Similarities and differences between Agni and Pitta.

6. Kapha Dosha: Vyutpatti, Nirukti of the term Kapha, general locations, general properties and general functions of Kapha, five types of Kapha (Bodhaka, Avalambaka, Kledaka, Tarpaka, Śleshaka) with their specific locations, specific properties, and specific functions.

7. Etiological factors responsible for Dosha Vriddhi, Dosha Kshaya and their manifestations.

8. Concept of Kriyakala.

9. Prakriti:

a) Deha- Prakriti: Vyutpatti, Nirukti, various definitions and synonyms for the term 'Prakriti'. Intra-uterine and extra-uterine factors influencing Deha-Prakriti, classification and characteristic features of each kind of Deha-Prakriti.

- b) Manasa- Prakriti: Introduction and types of Manasa- Prakriti.
- 10. Ahara: Definition, classification and significance of Ahara, Ahara-vidhi-vidhana, Ashta Aharavidhi Viseshayatana, Ahara Parinamkar Bhava.
- 11. Aharapaka (Process of digestion): Description of Annavaha Srotas and their Mula. Role of Grahani & Pittadhara Kala.
- 12. Description of Avasthapaka (Madhura, Amla and Katu). Description of Nishthapaka (Vipaka) and its classification. Separation of Sara and Kitta. Absorption of Sara. Genesis of Vata-Pitta-Kapha during Aharapaka process. Definition of the term Koshtha. Classification of Koshtha and the characteristics of each type of Koshtha.
- 13. Agni Definition and importance, synonyms, classification, location, properties and functions of Agni and functions of Jatharagni, Bhutagni, and Dhatvagni.

PART- B

50 marks

Modern Physiology

- a) Definition and mechanisms of maintenance of homeostasis. Cell physiology. Membrane physiology. Transportation of various substances across cell membrane.
- b) Resting membrane potential and action potential.
- c) Physiology of respiratory system: functional anatomy of respiratory system. Definition of ventilation, mechanism of respiration, exchange and transport of gases, neural and chemical control of respiration, artificial respiration, asphyxia, hypoxia. Introduction to Pulmonary Function Tests.
- d) Physiology of Nervous System: General introduction to nervous system, neurons, mechanism of propagation of nerve impulse, physiology of CNS, PNS, ANS; physiology of sensory and motor nervous system, Functions of different parts of brain and physiology of special senses, intelligence, memory, learning and motivation. Physiology of sleep and dreams, EEG. Physiology of speech and articulation. Physiology of temperature regulation.
- e) Functional anatomy of gastro-intestinal tract, mechanism of secretion and composition of different digestive juices. Functions of salivary glands, stomach, liver, pancreas, small intestine and large intestine in the process of digestion and absorption. Movements of the gut (deglutition, peristalsis, defecation) and their control. Enteric nervous system.
- f) Acid-base balance, water and electrolyte balance. Study of basic components of food. Digestion and metabolism of proteins, fats and carbohydrates. Vitamins & Minerals- sources, daily requirement, functions, manifestations of hypo and hypervitaminosis.

PAPER- II

100 marks

PART- A

50 marks

Dhatu: 1.

> Etymology, derivation, definition, general introduction of term Dhatu, different theories related to Dhatuposhana (Dhatuposhana Nyaya)

2. Rasa Dhatu:





Etymology, derivation, location, properties, functions and Praman of Rasa-dhatu. Physiology of Rasavaha Srotas, Formation of Rasa Dhatu from Aahara Rasa, circulation of Rasa (Rasa-Samvahana), role of Vyana Vayu and Samana Vayu in Rasa Samvahana. Description of functioning of Hridaya. Ashtavidha Sara (8 types of Sara), characteristics of Tvakasara Purusha, conceptual study of mutual interdependence (Aashraya-Aashrayi Bhaava) and its relation to Rasa and Kapha. Manifestations of kshaya and Vriddhi of Rasa.

3. Rakta Dhatu:

Etymology, derivation, synonyms, location, properties, functions and Praman of Rakta Dhatu. Panchabhautikatva of Rakta Dhatu, physiology of Raktavaha Srotas, formation of Raktadhatu, Ranjana of Rasa by Ranjaka Pitta, features of Shuddha Rakta, specific functions of Rakta, characteristics of Raktasara Purusha, manifestations of Kshaya and Vriddhi of Raktadhatu, mutual interdependence of Rakta and Pitta.

4. Mamsa Dhatu:

Etymology, derivation, synonyms, location, properties and functions of Mamsa Dhatu, physiology of Mamsavaha Srotasa, formation of Mamsa Dhatu, characteristics of Mamsasara Purusha, manifestations of Kshaya and Vriddhi of Mamsa Dhatu .Concept of Peshi.

5. Meda Dhatu:

Etymology, derivation, location, properties, functions and Praman of Meda Dhatu, physiology of Medovaha Srotas, formation of Medo Dhatu, characteristics of Medasara Purusha and manifestations of Kshaya and Vriddhi of Meda.

6. Asthi Dhatu:

Etymology, derivation, synonyms, location, properties, functions of Asthi Dhatu. Number of Asthi. Physiology of Asthivaha Srotas and formation of Asthi Dhatu, characteristics of Asthisara Purusha, mutual interdependence of Vata and Asthi Dhatu, manifestations of Kshaya and Vriddhi of Asthi Dhatu.

7. Majja Dhatu:

Etymology, derivation, types, location, properties, functions and Praman of Majjaa Dhatu, physiology of Majjavaha Srotas, formation of Majja Dhatu, characteristics of Majja Sara Purusha, relation of Kapha, Pitta, Rakta and Majja, manifestations of Kshaya and Vriddhi of Majja Dhatu.

8. Shukra Dhatu:

Etymology, derivation, location, properties, functions and Praman of Shukra Dhatu, physiology of Shukraravaha Srotas and formation of Shukra Dhatu. Features of Shuddha Shukra, characteristics of Shukra-Sara Purusha, manifestations of Kshaya and Vriddhi of Shukra Dhatu.

- 9. Concept of Ashraya-Ashrayi bhava i.e. inter-relationship among Dosha, Dhatu Mala and Srotas.
- 10. Ojas: Etymological derivation, definition, formation, location, properties, Praman, classification and functions of Ojas. Description of Vyadhikshamatva.

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Bala Vriddhikara Bhava. Classification of Bala. Etiological factors and manifestations of Ojavisramsa, Vyapat and Kshaya.

- 11. Upadhatu: General introduction, etymological derivation and definition of the term Upadhatu. Formation, nourishment, properties, location and functions of each Upadhatu.
 - a) Stanya: Characteristic features and methods of assessing Shuddha and Dushita Stanya, manifestations of Vriddhi and Kshaya of Stanya.
 - b) Artava: Characteristic features of Shuddha and Dushita Artava. Differences between Raja and Artava, physiology of Artavavaha Srotas.
 - c) Tvak: classification, thickness of each layer and functions.
- **12. Mala:** Etymological derivation and definition of the term Mala. Aharamala: Enumeration and description of the process of formation of Aharamala.
 - a) Purisha: Etymological derivation, definition, formation, properties, quantity and functions of Purisha. Physiology of Purishavaha Srotas, manifestations of Vriddhi and Kshhaya of Purisha.
 - Mutra: Etymological derivation, definition, formation, properties, quantity and functions of Mutra. Physiology of Mutravaha Srotas, physiology of urine formation in Ayurveda, manifestations of Vriddhi and Kshhaya of Mutra.
 - Sveda: Etymological derivation, definition, formation and functions of Sveda. Manifestations of Vriddhi and Kshaya of Sveda. Discription of Svedvaha Strotas
 - d) Dhatumala: Brief description of each type of Dhatumala.
- **13. Panchagyanendriya:** Physiological description of Panchagyaanendriya and physiology of perception of Shabda, Sparsha, Rupa, Rasa and Gandha. Physiological description of Karmendriya.
- **14. Manas:** Etymological derivation, definition, synonyms, location, properties, functions and objects of Manas. Physiology of Manovaha Srotas.
- **15. Atma:** Etymological derivation, definition, properties of Atma. Difference between Paramatma and Jivatma; Characteristic features of existence of Atma in living body.
- **16. Nidra:** Nidrotpatti, types of Nidra, physiological and clinical significance of Nidra; Svapnotpatti and types of Svapna.

PART -B

50 marks

Modern Physiology

- Haemopoetic system composition, functions of blood and blood cells, Haemopoiesis (stages and development of RBCs, and WBCs and platelets), composition and functions of bone marrow, structure, types and functions of haemoglobin, mechanism of blood clotting, anticoagulants, physiological basis of blood groups, plasma proteins, introduction to anaemia and jaundice.
- 2. Immunity, classification of immunity: Innate, acquired and artificial. Different mechanisms involved in immunity: Humoral (B-cell mediated) and T-Cell mediated immunity. Hypersensitivity.



- Muscle physiology comparison of physiology of skeletal muscles, cardiac muscles and smooth muscles. Physiology of muscle contraction.
- Physiology of cardio-vascular system: Functional anatomy of cardiovascular system. Cardiac cycle. Heart sounds. Regulation of cardiac output and venous return. Physiological basis of ECG. Heart-rate and its regulation. Arterial pulse. Systemic arterial blood pressure and its control.
- Adipose tissue, lipoproteins like VLDL, LDL and HDL triglycerides.
- Functions of skin, sweat glands and sebaceous glands.
- Physiology of male and female reproductive systems. Description of ovulation, spermatogenesis, oogenesis, menstrual cycle.
- Physiology of Excretion functional anatomy of urinary tract, functions of kidney. Mechanism of formation of urine, control of micturition. Formation of faeces and mechanism of defecation.
- Endocrine glands General introduction to endocrine system, classification and characteristics of hormones, physiology of all endocrine glands, their functions and their effects.

PRACTICAL

100 marks Teaching hours-180

Ayurvedic practical

- Assessment of Prakriti
- 2. Assessment of Dosha (Features of Vriddhi- Kshaya)
- 3. Assessment of Dhatu (Features of Vriddhi- Kshaya)
- 4. Assessment of Agni
- Assessment of Koshtha
- 6. Assessment of Sara
- 7. Nadi pariksha

Modern physiology practical

- 1. Introduction to laboratory instruments- Simple & Compound Microscope, Scalp vein set, bulbs for blood collection, Sahli's Haemometer, Haemocytometer, pipettes, Urinometer, Albuminometer, Stethoscope, B.P. Apparatus, Harpenden's caliper, Clinical Hammer, Tuning Fork, Stop Watch, Thermometer, Centrifuge machine, ECG Machine
- 2. Collection of blood sample prick, vene-puncture method, use of anticoagulants
- 3. Preparation of blood smear and staining
- 4. Estimation of Hemoglobin
- 5. Microscopic examination of blood
 - a. Total RBC count
 - b. Total WBC count
 - c. Differential leucocyte count
- 6. Packed cell volume (PCV) demonstration
- 7. ESR demonstration
- 8. Bleeding time, Clotting time
- Blood grouping and Rh typing
- 10. Examination of Cardio-Vascular system
 - a. Pulse examination
 - Arterial blood pressure measurement
 - Examination of heart sounds
 - ECG demonstration

- 11. Examination of Respiratory system
 - a. Respiratory rate
 - b. Breath sounds
 - Spirometry C.
- 12. Examination of Nervous System- Sensory & Motor.
- 13. Urine examination -Physical examination, chemical examination. Test for normal constituents of urine. Detection of specific gravity and reaction of urine.

Distribution of Practical marks

1.	Laboratory Practical	- 20
2.	Human Experiment	- 15
3.	Spotting	- 15
4.	Prakriti Saradi pariksha	- 20
5.	Practical Record	- 10
6.	Viva- voce	- 20

REFERENCE BOOKS:-

- Ayurvediya Kriyasharir Ranjit Rai Desai
- Kayachikitsa Parichaya C. Dwarkanath
- Prakrit Agni Vigyan - C. Dwarkanath
- Sharir Kriya Vigyan - Shiv Charan Dhyani
- Abhinava Sharir Kriya Vigyana Acharya Priyavrata Sharma
- Dosha Dhatu Mala Vigyana Shankar Gangadhar Vaidya
- Prakrita Dosha Vigyana Acharya Niranjana Dev
- Tridosha Vigyana Shri Upendranath Das
- Sharira Tatva Darshana Hirlekar Shastri
- Prakrita Agni Vigyana Niranjana Dev
- Deha Dhatvagni Vigyana Vd. Pt. Haridatt Shastri
- Sharir Kriya Vigyana (Part 1-2) Acharya Purnchandra Jain
- Sharir Kriya Vigyana Shri Moreshwar Dutt. Vd.
- Sharira Kriya Vijnana (Part 1 and 2) Nandini Dhargalkar
- Dosha Dhatu Mala Vigyana Basant Kumar Shrimal
- Abhinava Sharir Kriya Vigyana Dr. Shiv Kumar Gaur
- Pragyogik Kriya Sharir Acharya P.C. Jain
- Kaya Chikitsa Parichaya Dr. C. Dwarkanath
- Concept of Agni Vd. Bhagwan Das
- Purush Vichaya Acharya V.J. Thakar
- Kriya Sharir Prof. Yogesh Chandra Mishra
- Sharir Kriya Vigyana Prof. Jayaram Yadav &Dr. Sunil Verma.
- Basic Principles of Kriya-Sharir (A treatise on Ayurvedic Physiology) by Dr. Srikant Kumar Panda
- Sharir Kriya Part I & Part II Dr. Ranade, Dr. Deshpande & Dr. Chobhe
- Human Physiology in Ayurveda Dr Kishor Patwardhan
- Sharirkriya Vignyan Practical Hand Book- Dr.Ranade, Dr.Chobhe, Dr. Deshpande
- Sharir Kriya Part 1 Dr.R.R.Deshapande, Dr.Wavhal
- Sharir Kriya Part 2 Dr. R.R.Deshapande, Dr.Wavhal
- Ayurveda Kriya Sharira- Yogesh Chandra Mishra
- Textbook of Physiology Gyton & Hall
- A Textbook of Human Physiology A.K.Jain
- Essentials of Medical Physiology Sembulingam, K.

- Concise Medical Physiology Chaudhari, Sujit K.
- Principals of Anatomy & Physiology Tortora & Grabowski
- Textbook of Medical Physiology- Indu Khurana

1.4 RACHNA SHARIR (ANATOMY)

Theory- Two Papers-200 Marks-(100 marks each) Teaching Hours-180 hours

100 marks

PAPER-I

PART-A

50 marks

1. Shariropkramaniya Shaarira Sharira and shaarira vyakhya (definitions of sharira and shaarira), shadangatvam (six regions of the body), anga pratyanga vibhaga (sub divisions). Mrita sharir samshodhan.

Shaarira shastra vibhaga, shaarira gyan prayojana . Constitution of purusha according to dhatubheda, panchabhautikatvam, trigunatmakatvam, tridoshamayatvam, karma purusha,

and doshadhatumala-mulakatvam.

2. Paribhasha Shaarira

Kurcha, kandara, jala, asthisanghat, seemanta, seevani, rajju, snayu and lasika.

3. Garbha Shaarira

Garbha definitions, explanation of shukra, artava, garbhadhana. Role of tridosha and panchmahabhuta in the fetal development. Beeja, beejabhaga and beejabhagavayava, garbha vriddhi-krama, garbhottpadakbhava, masanumasika garbhavriddhikara bhava, garbha poshana, apara nirmana , nabhinadi nirmana. Aanga pratyanga utpatti.

4. Pramana Shaarira: Anguli pramana.

5. Asthi Shaarira

Asthi vyakhya, number, types, asthi swaroopa, vasa, meda and majja.

6. Sandhi Shaarira

Sandhi vyakhya, numbers, types of asthi sandhi.

7. Sira, Dhamani, Srotas Shaarira

- a) Definition, types and number of sira and dhamani.
- b) Description of Hridaya.
- c) Sroto shaarira: Definition, types of srotas and srotomula.

8. Peshi Shaarira

- a) Peshi vyakhya, structure, types, number and importance.
- b) Description of Peshi.

9. Koshtha Evam Ashaya Shaarira

- a) Definition of kostha and number of koshthanga.
- b) Types and description of ashaya.

10. Kalaa Shaarira

Kalaa: definition and types.

11. Uttamangiya Shaarira

Shatchakra, ida, pingala and sushumna nadi - brief description.

12. Marma Shaarira

Marma: definition, number, location, classification, clinical importance with viddha lakshana. Explanation of trimarmas. Detail description of marmas.

13. Indriva Shaarira

Definition of indriva, indriva artha and indriva adhisthan, their number and importance. Description of gyanendria, karmendriya and ubhayendriya (manas).

PART-B

50 marks

1. Definition and branches of anatomy. Preservation methods of the cadaver.

2. Anatomical Terminologies

Anatomical position, Planes, and explanation of anatomical terms related to skin, fasciae, bones, joints and their movements, muscles, ligaments, tendons, blood vessels, nerves,.

3. Embryology

Definitions and branches of embryology. Embryo and fetus. Sperm and ovum, fertilization. Cleavage. Germ layers formation and their derivatives. Laws of heredity, Sex determination and differentiation, Month-wise development of embryo. Foetal circulation, placenta formation, Umbilical cord formation.

4. Osteology

Bone: Definition, ossification, structure and types. Description of bones with clinical anatomy.

5. Arthrology

Joints: Definition, structure types and movements. Description of joints of extremities, vertebral joints and temporomandibular joint with their clinical anatomy.

6. Cardiovascular system

a. Definition, types and structure of arteries and veins.

b. Description of heart and blood vessels with their course and branches.

c. Pericardium with applied aspect.

7. Lymphatic system

Definition, types and structure of lymph vessels, lymph glands with their clinical aspect.

8. Myology

a) Structure and types of muscles.

b) Description of muscles; their origin, insertion, actions, nerve supply and clinical anatomy.

Paper II

100 marks

Part A

50 marks

1. Respiratory System



Bronchial tree and lungs with their clinical aspects.

b. Respiratory tract: nasal cavity, pharynx, larynx, trachea, bronchial tree.

c. Pleura with its clinical aspects.

d. Diaphragm.

2. Digestive system

a. Organs of digestive tract (alimentary tract) with their clinical aspects.

b. Digestive glands: liver, spleen and pancreas.

c. Description of peritoneum with its clinical aspects.

3. Urinary System

Urinary tract: kidney, ureter, urinary bladder and urethra with their clinical aspects.

4. Reproductive system

a. Male Reproductive system: reproductive organs, tract and glands (prostate and seminal vesicles) with their clinical aspects.

b. Female reproductive system: reproductive organs, tract and glands with their clinical aspects.

5. Endocrinology

Definition, classification & description of endocrine glands (pituitary, thyroid, parathyroid, thymus and suprarenal glands) with clinical aspects.

PART B

50 marks

6. Nervous System

Nervous system: definition, classification and its importance. Description of brain and spinal

Description of peripheral nervous system: cranial and spinal nerves, nerve plexuses, and autonomic nervous system, formation and circulation of cerebrospinal fluid and blood supply of brain and spinal cord.

7. Sensory organs

Description of structures of eye, ear, nose, tongue and skin with their clinical aspects.

8. Surface and radiological anatomy

- a. Study of radio-imaging of limbs, abdomen, pelvis and vertebral column with its clinical application.
- b. Surface anatomy of thoracic and abdominal viscera.

PRACTICAL

100 marks Teaching hours: 180

Content of practical

- Practical study of bones
- Practical study of organs
- Practical study of surface and radiological anatomy.
- Shava vichhedana detailed dissection of the whole body.

5. Practical study of location of marma

Demonstration of histology slides (10 slides)

Distribution of marks

1. Spotting -

20 marks

Dissected organs and histology slides -

20 Marks

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3. Bones, joints, marma - 20 Marks
4. Surface & radiological anatomy - 10 Marks
5. Practical records - 10 Marks
6. Viva-Voce - 20 Marks
Total 100 Marks

Reference Books :-

S.	No.	Name of Book	Author
	1.	Brihat Shariram Vaidyaratna-	P.S. Varrier
	2.	Abhinava Shariram-	Acharya Damodar Sharma Gaur
	3.	Manava Sharir (Revised Edition)-	Prof. Dinkar Govind Thatte
	4.	Manava Bhruna Vigyana -	Prof. Dinkar Govind Thatte
	5.	Manava Anga Rekhankan Vikrian -	Prof. Dinkar Govind Thatte
	6.	Sharir Rachana Vigyan (English)-	Vaidya P.G. Athawale
	7. 8.	Manual of Practical Anatomy Cunnigham Clinical Anatomy in Ayurveda -	Practical Manual Vol-1, Vol-2, Vol-3 Prof. D.G. Thatte & Prof. Suresh
		of the control of the first of the second of	Chandra
	9,	Sharir Rachna Vigyan (English)-	Prof. D.G. Thatte
	10.	Ayurvedic Human Anatomy -	Prof. Dr. Giridhar M. Kanthi
	11.	Regional Anatomy -	B. D. Chaurasia
	12.	Rachana Sharir Vigyana -	Dr. Mahendra Sing
	13.	elevant chapters of Brihtrayee and Laghu	thravee
	14.	Gray's Anatomy	
	15.	Text Book of Human Anatomy-	Inderbir Singh
	16.	Clinical Anatomy-	Richard S Snell
	17.	Fundamentals of Human Anatomoy-	Dr. Chakraborthy
	18.	Human Osteology -	Poddar

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1.5 Maulik Siddhant avum Ashtang Hridaya (Basic Principles and Ashtang Hridaya- An ancient text of Ayurveda)

Theory- One Paper- 100 marks Teaching Hours -120 hours

Part A

60 marks

Ashtang Hridaya Sutrasthana Adhyaya 1 to 15

Part B

40 marks

- 1. Ashtang Hridaya Sutrasthana Adhyaya 16 to 30
- 2. Description of Ashta Prakriti
- 3. Shastra Lakshan (Tantra), Tantraguna, Tantradosha, Tachitalya, Arthasraya, Kalpana

Reference Books:

Hindi commentary by Lalchanda Vaidya 1. Astang Hridaya : Hindi commentary by Vd. B.L. Gaur 2. Astang Hridaya: English commentary by Dr. T. Sreekumar 3. Astang Hridaya: English commentary by Dr. Vishwavasu Gaur 4. Astang Hridaya:

Sanskrit commentary by Hemadri 5. Astang Hridaya: Sanskrit commentary by Arunadatta 6. Astang Hridaya:



CENTRAL COUNCIL OF INDIAN MEDICINE NEW DELHI

SYLLABUS OF AYURVEDACHARYA (BAMS) COURSE

INDEX

2ND PROFESSIONAL

2.1	DRAVYAGUNA VIGHYAN	2-9
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2.4	CHARAK SAMITTA	

Course Part: Proff II Separate Passing Head: No, Min: 0, Max: 1250

Term: Proff II Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0, Max: 1250

The papers for Proff II - Proff II are classified into following groups:

 Compulsory Group (Min Papers: 11, Max Papers: 11, Separate Passing Head: No, Max. Marks: 0) Select minimum 11 paper(s) Select maximum 11 paper(s) Papers: Charak Samhita (Purvardh) BAMS204 Dravyaguna Vigyan I BAMS2011 Dravyaguna Vigyan II BAMS201 II Dravyaguna Vigyan Practical BAMS201 PR Rasashastra Evam Bhaishjya Kalpana I BAMS203 I Rasashastra Evam Bhaishjya Kalpana II BAMS203 II Rasashastra Evam Bhaishjya Kalpana Practical BAMS203 PR Charak Samhita (Purvardh) Practical BAMS204 PR Roga Nidan Evam Vikriti Vigyan Practical BAMS202 PR Roga Nidan Evam Vikriti Vigyan- Ayurveda BAMS2021

Roga Nidan Evam Vikriti Vigyan- Pathology

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BAMS202 II

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2.1 DRAVYAGUNA VIJNAN

(PHARMACOLOGY & MATERIA MEDICA)

Lectures: 200 Hrs.

Practicals: 200 Hrs.

Total Marks -400

Theory Two Papers- 100 Marks Each

Practical/Viva voce - 200 Marks

100 Marks

Paper I

Part A

50 Marks

1- Dravyaguna Shastra Paribhasa- Lakshana of Sapta Padartha of Dravyaguna Vijnana viz Dravya- Rasa-Guna- Virya- Vipaka- Prabhava and Karma.

2- Dravya:

Etymological derivation, definition, panchbhoutikatwa. Classification of Dravya according to Samhitas and Nighantus Taxonomical classification.

3- Guna:

Etymological derivation, definition and Classification of Guna. Detailed knowledge of Gurvadi Guna & Paradi gunas.

4- Rasa:

Etymological derivation, definition, Meaning of "Rasa" in various contexts. Shad Rasas (Madhura, Amla, Lavana, Katu, Tikta, and Kashaya), Panchabhautik constitution of Rasas, Nirvrittiviseshakrama (manifestation in general and particular), Ritu and shad rasa Rasanurasayoh bheda (Difference between rasa and anurasa), Lakshana (characteristics), Guna and Karma of shad Rasas, Kopana and Shamana of Dosha and dushya by Shad rasas. Effects of excess usage of Rasa. Rasopalabdhi, Rasaskandha.

5- Vipaka:

Etymological derivation and definition, difference between Avasthapaka and Vipaka, Types of Vipaka, (Dvividha-Trividha, Panchavidha) Guna and karma of Vipaka. Grades of Vipaka (taratamya), Vipakopalabdhi hetu (Factors to determineVipaka).

6- Veerya:

Etymological derivation, definition and Swarupa of Virya, Number of Virya. (Dwividha & Ashtavidha), Panchabhauthikatva Virya karmani (Effects of Virya), General principles in determination of virya along with exceptions.

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7- Prabhava:

Definition, Effects of Prabhava.

8- Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength (balabal nirupana). Samanapratyayarabdha and Vichitrapratyayarabdha dravyas.

9- Karma:

Lakshana, swaroopa and bheda of karma (Definition, nature and types of action).

Explanation of the following Karmas with examples:

1. Deepana 4. Samshamana 7. Bhedana 10. Lekhana 13. Madakari 16. Vyavayi 19. Vajeekarana 22. Brimhana	2. Pachana 5. Anulomana 8. Rechana 11. Grahi 14. Pramathi 17. Vikashi 20. Jeevaneeya 23. Langhana	3. Samshodhana 6. Sransana 9. Chhedana 12. Sthambhana 15. Abhishyandi 18. Rasayana 21. Balya 24. Medhya

10. Brief information on Karmas of dashemani gana of Charak Samhita.

11- Mishraka Gana:

- 11a)- Audbhida Gana (Vegetable origin) Brihatpanchamoola, Laghupanchamoola, Vallipanchamoola, Kantakapanchamoola, Trinapanchamoola, Madhyamapanchamoola, Jeevaneeya panchamoola, Panchapallava, Panchavalakala, Triphala, Trikatu, Trimada, Chaturusana, Panchakola, Shadusana, Chaturbeeja, Jeevaniya gana, Ashtavarga, Trijataka, Chaturajataka, Katuchaturjataka Panchatikta, Amlapanchaka, Chaturbhadra, Trikarshika, Swalpatriphala, Madhuratriphala, Mahavisha, Upavisha, Agrya aushadh varga- Knowledge of Agrayaaushadha Varga with example.
- 11 b)- Jangama Gana (Animal origin)- Ksheerashtaka, Mutrashtaka, Pitta panchaka.
- 11 c)- Parthiva Gana (Mineral origin) Lavana Panchaka, Kshara dvaya, Kshara Ashtaka.

12- Basis of nomenclature:

Basis of nomenclature of dravya, Basis and Derivation of synonyms.

13. Bheashaja Pariksha vidhi (as described in Charaka samhita vimana sthana 8), Dravya Sangrahana (collection of dravya)- Ecology- Classification of desha (geographical area) and bhumi (soil), swarupa of sangrahaniya dravya of (Nature and quality of drug to be collected). Sangrahana vidhi (Method of collection) -Vegetable and Animal origin drugs according to part used. Period of collection according to virya, samrakshana vidhi (preservation of collected dravyas), bheshajagara (Storehouse), study on different prayojyanga (useful plant parts).

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20 Marks

(I)

- 14 a) Concept of dravya shodhan (purification of dravya).
- 14 b) Brief knowledge of Apamishran (adulterants)
- 14 c) Concept of Abhava pratinidhi dravya (substitutes)
- 15- Prashasta bheshaja (ideal drug), plant extracts. Concept of viruddha Dravya (incompatibility of the dravya).
- 16- Introduction to Nighantu Vigyan Dhanwantari Nighantu, Bhavaprakashanighantu, Rajanighantu.
- 17- Brief knowledge of cultivation, conservation of medicinal plants and information about endangered species.

30 Marks (II)

18. - Introduction, Definition & scope of Pharmacology and Principles of general Pharmacology. Brief Knowledge about pharmacology of the following - Anaesthetics, CNS depressants, Sedatives, Hypnotics, Tranquilisers, Antipyretics, Analgesics, Antiepileptics, Antihypertensive, Antianginal, Antiplatelet, Hypolipidaemic, Haemopoetic, Coagulants, Bronchodialators, Aerosols/ Inhalants, Expectorants, Digestants, Carminatives, Antacids, Antiulcer, Laxatives, Antidiarrhoeals, Antiemetic, Hepatoprotective, Diuretic, Antidiuretic, Lithotriptic, Antiinflammatory, Hormonal therapy, Antiobesity, Antidiabetic, Antithyroid, Antihistamines, Styptics, Contraceptives, Antibiotics, Antimalarial, Amoebicidal, Antifilarial, Anthelmentic, Antifungal, Vitamins, Minerals, Water imbalance and IV fluids, Vaccines, antivenom, antirabbies serum, Local antiseptics, drugs in ophthalmic practice, Anti cancer drugs and immunomodulators.

Paper II

Part A

100 Marks

70 marks

1-Detailed Knowledge of Following Dravya -

1- Detailed knowledge of following drugs with respect to Basonym of drug, Main Synonyms, Regional Name, Botanical Name, Family, Classification of Dravya (Gana) as described in Charak and Sushrut, External morphology, Useful parts, Important phytoconstituents, Rasa panchaka, Action on Dosha, Dhatu, Mala, Prayogarha vyadhi (therapeutic indications), Amayikaprayoga and Matra (Therapeutic administration and Dose), Vishishta yoga (names of important formulations), Vishakta Lakshan (adverse effects), Chikitsopachara (remedial measures) and Shodhana (as required)

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Sit Int

[Alphabetical order and Botanical names to all the drugs are to be added]

Agaru Agnimantha Agnimantha Ahiphena Amalaki Apamarga Aragvadha Aragvadha Ardraka-Sunti Arjuna Arjuna Arkadvaya Ashvagandha Asoka Ativisha Bakuchi Baladvayam. Bhallataka Bharangi Bhrungaraj Bibhitaka Bijak/ Vijaysar Bilva

Brahmi
Bruhati
Chandanadvaya,
Chitraka
Dadima
Devadaru
Dhataki
Durva
Eladvayam
Eranda
Gambhari
Gokshura
Guduchi

Guagulu Haridradvaya Haritaki Hingu Jambu Jatamansi Jatiphal Jeerakadvaya Jyotishmati Kalamegha Kampillaka Kanchanara Kantakari Kapikacchu Karkatakshringi Karpura Katuki Khadira Kiratatikta Kumari

Kumkum Kesara
Kupilu
Kushta
Kutaja
Lavanga
Lodhra
Madanaphala
Mandukaparni.
Manjishtha
Maricha
Musta
Nagakeshara
Nimba
Nirgundi
Palasha

Parpata

Pashanabheda Patala

Pippali-Pippalimula Prishniparni Punarnava Pushkarmoola

Rasna
Rasona
Rohitaka
Saireyaka
Sarivadvaya
Sarpagandha
Shalaparni
Shallaki
Shalmali
Shankhapushpi
Shatavari

Shatavari Shigru Shirisha Shyonaka Talisa Patra Tila

Tila
Trivrut
Tulasi
Tvak
Ushira
Vacha
Varahi
Varahi
Varuna
Vasa
Vatsanabha
Vidanga
Vidari
Yastimadhu
Yavani

Part B-

II- Brief Knowledge of following dravyas with Respect to Sanskrit Name, Botanical Name, Family, Habit (Samanya Swarupa), Parts Used and Indications.

Agastya Ajamoda Akarkarabh Amlavetasa Amra Jati Jayapala Jeevanti Kadali, Kadamba

Palandu Parasika Yavani Parijata

Parijata Parisha Parnabija

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Amragandhiharidra Ankola Aparajita Ashvagol Ashvattha Asthishrunkhala Atasi Avartaki Avartani Babbula

Badara Bakula Bhumyamalki Bijapoora Bola Chakramarda

Champaka Chandrashura Changeri Chavya Chirbilva Chopachini Danti Darbha Dattura Dhanvayasa Dhanyaka Draksha

Dronapushpi Gandhaprasarini Garjara Goiihva, Gorakshaganja

Gunja hinsapa Hinstra Hribera Hrutpatri Ikshu Indravaruni Ingudi Irimeda Ishvaku Isvari

Kaidarya Kakamachi Kamala Kankola Karanja Karavellaka Karavira Karira

Karpasa Kasamarda Kasha Kasni Kataka Katphala Kebuka Kharjura Kitmari Kokilaksha Koshataki Kulatha Kumuda Kusha Kusmanda Lajjalu Langali Latakaranja Latakasturi Madayantika Mahanimba

> Markandika Masha Mashaparni Matulunga Mayaphala Meshashrungi Methika Mudgaparni Mulaka Murva Nagabala Nala Narikela Nili Padmaka

Mandukaparni

Parnayavani Parpataka Parushaka Patalagarudi

Patha Patola Patranga Pilu Plaksha Prasarani Priyala Priyangu Puga Putiha

Putranjivaka Rajika/Sarshapa Rohitaka

Saptachakra Saptaparna Saral Sarja Shala Shara

Sharapunkha Shatahwa Shati Snuhi Sringataka Svarnakshiri Tagara. Tailaparni Talmuli Taruni Tavakshira Teja Patra Tuvaraka Udumbara urana Vamsha Vata Vatada Vrudhadaru

Vrukshamla

III .-Introduction, Guna, Karma and Uses of following Jantava Dravya (Drugs of Animal Origin).

1. Kasturi

Japa

2. Gorochana

3. Mrigasringa

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IV- Introductory Knowledge of Following Annapana Varga:

1. Jala Varga

2. Dugdha Varga

3. Madhu Varga

4. Taila Varga

5. Sukadhanya Varga

6.Shamidhanya Varga

7. Phala Varga

8. Shaka Varga

9. Mamsa Varga

10. Aharayogi

PRACTICALS

- A. Study of Macroscopic, Microscopic characters and Demonstration of organoleptic characteristics and grahya-agrahyatva of following plants and their useful parts.
 - i. Kanda (stem) Guduchi or Ashtishrinkhala
 - ii. Patra (leaves) Vasa or Kumari
 - iii. Pushpa (flower and Parts of flower)- Dhataki or Japa
 - iv. Phala (fruit) Maricha or Madanaphala or Vidanga
 - v. Beeja (seeds) Eranda or Kapikacchhu
 - vi.Twak (bark) Kutaja or Arjuna or Ashwattha
 - vii. Moola(Root)- Punarnava or Chitraka
 - viii. Niryasa (exudate) Guggulu or Mocharasa
 - ix. Jangama dravya Madhu or Ghrita.
 - Records of Herbarium sheets of 50 medicinal plants Compulsory study tour other state/s for field knowledge and procurement of plant species.

PRACTICAL MARKS DIVISION

1 2 3 4	Herbarium Practical record Drug identification- spotting -Raw/crude drugs Plant identification spotting -fresh	20 Marks 20 Marks 30 marks 30 marks
5	Practical	40 marks
6.	Viva-Voce	60 Marks

Total

200 marks

Reference Books

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1. 2. 3.	Abhinav Buti Darpan (Vol.1-2) - Aushadna Vigyna Shastra - Ayurvediya Aushadnkarma vigyana -	•	Vd. Roop Lal Vaishya Acharya Pt. Vishvanatha Dwidevi Acharya V.J. Thakur
4. 5. 6. 7.	Bedi Vanaspati Kosha Bhaishajyaguna Vigyana Bhav Prakash Nigantu (English) Bhav Prakash Nighantu	•	Prof. Ramesh Bedi Dr. Alakhnarayan Singh Shreekanthamurti With Vd. Krishna Chandra Chunekar commentary Mahendra Kumar Shastri
8. 9.	Bhrinad dravyagunadarsha	- -	Acharya Priyavrata Sharma
10. 11.	Controversial Medicinal Plants Dalhana Ka Dravyaguna Shastra Ke	-	Vd. G. Bapa Lal Vd. Shiv Kumar Vyas
12. 13. 14. 15. 16. 17. 18. 19.	Kshetra Me Yogadana Dravyaguna Kosha Dravyaguna Sutram Dravyaguna Vigyana Dravyaguna Vigyana(Vol. 1-2) Dravyaguna Vijyana Dravyaguna Vigyana (Vol. 1-5) Dravyaguna Shastrum Dravyaguna Vijyana Dravyaguna Vijyana Dravyaguna Vijyana		Acharya Priyavrata Sharma Acharya Priyavrata Sharma Dr. Gyanendra Pandey Acharya Yadavji Tikram Ji Dr. V.M. Gogate Acharya Priyavrata Sharma Vaidya G.A. Phadake Dr. A.P. Deshpande Prof.D.S.Lucas Dr. Prakash Pranjape
21. 22 23 24 25 26 27 28	Plants) Glossry of Vegetable Drugs in Bhrittrayis Introduction to Dravyaguna Kriyatamka Aushadi Parichaya Materia Medica Nighantu Adarsh (Vol. 1-2) Pharmacological basis of Medical Practice Pharmacology and Pharmacotherapeutics		Thakur Balwant Singh & Vd. Krishna Chandra Chunekar Acharya Priyavrata Sharma Acharya Pt. Vishvanath Dwidevi Acharya Ghosh Vd. Bapa Lal Goodman & Gillman Satoskar Bhandarkar & Ainapure Dr. Maya Ram Uniyal
3	 Priya nighantu Raspanchaka/Dravyaguna Siddhanta System of Plant Nomenclature in 	_	Acharya Priyavrata Sharma Prof. Shivcharan Dhyani Dr. Gyanendra Panday
3	Ayurveda 3. Text Book of Pharmacognosy 4. Textbook of Dravyaguna 5. Unani Dravyaguna Vigyana		Trees & ValisDr.K.NishteswarHakim Daljeet Singh

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- 36. Useful parts of Charaka, Sushurut, and Vagbhata.
- 37. Uttarakand Ki Vanaspatiya
- 38. Vanoaushadi Darshika
- 39. Vanoaushadi Nidarshika
- 40. Vedic Vanaspatiyan

- Dr. Gyanendra Pandey
- Thakur Balwant Singh
- Dr. Ram Sushil Singh
- Dr. Dinesh Chandra Sharma

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2.2 ROGA NIDANA

Theory Two Papers - 100 Marks Each Practical/Viva voce - 100 Marks

100 Marks

PAPER -1

50 Marks

Part A

I. Dosha Dushyadi Vigyana

Definition and importance of Roganidana.

- 2. Samanya Nidana and Samanya Lakshana of Dosha Vriddhi, Kshaya and Prakopa.
- 3. Dosha Dhatu Ashraya Ashrayi Bhava.
- 4. Dhatu Kshaya Vriddhi Lakshana.
- Mala Kshaya Vriddhi Lakshana.
- Hetu, Bheda and Lakshana of Agni Dushti.
- 8. Definitions and Samanya Lakshana of Ama.
- 9. Sama and nirama Dosha, Dushya Lakshana.
- 10. Dosha Paka and Dhatu Paka Lakshana.
- 11. Concept, classification, diagnosis and general complications of Avarana.
- 12. Doshagati and Rogmarga.
- 13. Detailed study of Srotomoola and Srotodushti Samanya and Vishishta Hetu Lakshana of all Srotas. Differences between Sroto Dushti and Kha Vaigunya.

II. VyadhiVigyana

- 1. Definition, synonyms and classification of Vyadhi & Vyadhi Ghatak.
- 2. Criteria for nomenclature of Diseases in Ayurveda (Vyadhinamakarana).
- 3. Bija, Bija Bhaga and Bija Bhaga Avayava Dushti.
- 4. Basic knowledge of Hereditary, Congenital, Acquired, Multifactorial, Traumatic and Environmental disorders.
- 5. Introduction to ICD Classification of Diseases of WHO and DSM classification.
- 6. Samanyaja and NanatmajaVikara. NidanarthakaraVyadhi, Hetu Sankara, Lingasankara, Vyadhisankara, Vyadhi Awastha.
- 7. Dhatu, Updhatu, Mala and Indriya Pradoshaj Vikara.
- Concept of AshtaMahagada .
- Introduction to Ashta Nindita.
- 10. Definition and classification of Vyadhikshamatva.
- 11. Ojas types of Ojo Dushti- Visrimsa- Vyapad & Kshaya & It's Diseases.

III. Basic Pathology

- 1. Introduction to pathology and its sub-divisions.
- 2. Introduction to Cell Injury and Cellular adaptations.
- 3. Definition and brief description of inflammation Healing/repair.
- 4. Definition and brief description of edema shock hemorrhage, Thrombosis , embolism, Ischemia and Infarction.
- 5. Types of Immunity different types of immune responses in the body Basic knowledge of auto immune diseases, Acquired immune deficiency disease and hypersensitivity.
- 6. Nomenclature and classification of tumors difference between benign and malignant tumors.
- 7. Introduction to Nutritional disorders disorders of macro and micro nutrients.
- 8. Introduction to infections.
- 9. Introduction and classification of microorganisms such as virus- bacteria-fungus.

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IV. Nidana Panchaka Vigyana

Difference between Roga and Rogi Pariksha.

Importance of Nidan Panchaka.

Hetu - Definition, Synonyms and Classification.

4. Purva Rupa – Definition, Synonyms, Samanya and Vishishta Purvarupa.

Rupa - Definition, Synonyms, Samanya and Pratyatma Lakshana. Difference between Vyadhi and Lakshana.

6. Upashaya / Anupashaya - Definition, Types and its importance in diagnosis.

- 7. Samprapti Definition, Synonyms and Type and Samprapti Ghataka.
- 8. Shat Kriyakaala. Relationship between Nidana Panchaka and Shat Kriyakaala.

9. Upadrava and Udarka.

10. ArishtaVigyan – Definition, Types and its importance.

- 11. Sadhyasadhyatwa Types, their parameters and importance.
- 12. General diagnostic principles of AnuktaVyadhi (Ch. Vi. 4).

V. Pariksha Vigyana

1. Importance and knowledge of Aptopadeshadi & Darshanadi Trividha, Chaturvidha, and Shadvidha Pariksha.

2. Importance and Knowledge of Ashtasthana Pariksha.

- 3. Importance and Knowledge of Karanadi Dashavidha Parikshya Bhava.
- 4. Importance and Knowledge of Dashavidha Pariksha.
- Basic knowledge of ECG, USG, X Ray,CT Scan,MRI.

Paper II

100 Marks

50 Marks

Systematic study of Nidana Panchaka of following diseases (Including Upadrava, Arishta and Sadhyasadhyata).

I. Diseases of Rasavaha Srotas

- 1(a) Jwara(Jwarabheda-Ama, Pachyamana and Nirama Jwara, Agantukajwara, Punaravartaka Jwara, Vishama Jwara, Dhatugata Jwara, Charakokta Sannipata Jwara.
- 1(b) General mechanism of Fever, Introduction to the Aetiopathogenesis of Malaria, Typhoid, Dengue fever, Influenza and Chikungunya.

2(a) Pandu, Amavata, Hridroga, Shotha.

2(b) Introduction to Anaemia & its Classification, Rheumatic fever, Rheumatoid Arthritis, Hypertension, Angina, Ischaemic Heart Disease, Myocardial Infarction and CCF.

II. Diseases of Raktavaha Srotas

- 1. Kamala Raktapitta Vatarakta Kroshtuksheersha Shitapitta Maha Kushtha -Visarpa - Shwitra and Introduction to Kshudra Kushtha.
- 2. Introduction to Hepatomegaly, Spleenomegaly, Leukaemia, Thalessemia, Sickle cell Anaemia.
- 3. Introduction to Urticaria, Psoriasis, Eczema, Pemphigus.

III. Diseases of Mamsavaha Srotas

(a) Galganda

(b) Introduction to Thyroid disorders

IV. Diseases of Medovaha Srotas

Sthoulya - Karshya - Prameha.

2. Introduction to Obesity and Diabetes Mellitus.

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V. Diseases of Asthi - Majjavaha Srotas

1. Vatavyadhi - Akshepaka - Apatanaka - Ardita - Pakshaghata - Gridhrasi - Vishwachi, Avabahuka, - Manyasthambha ,Katigraha,Pangutwa

2. Sandhigatavata, Asthi-Majjagata vata.

3. Introduction to Osteo- Arthritis, Osteoporosis.

4. Introduction to Parkinson's disease, Stroke, Lumbago- Sciatica syndrome, Bell's Palsy, Cervical- Lumber & Ankylosing Spondylitis.

VI. Diseases of Shukravaha Srotas

1. Introduction to Klaibya and Vandhyatva.

2. Introduction to male and female infertility.

Part B

50 Marks

VII. Diseases of Pranavaha Srotas

1(a). Kasa - Shwasa - Hikka - Urahkshata - Shosha - Rajayakshma.

1(b). Introduction to the aetiopathogenesis of Pneumonia, Pleural effusion, Bronchitis, Bronchiectasis, Bronchial Asthma.

VIII. Diseases of Annavaha- PureeshavahaSrotas

1. Agnimandya - Ajirna - Aruchi- Chhardi - Amlapitta- Shoola - Parinama Shoola -AnnadravaShoola- Atisara - Pravahika - Grahani -Gulma- Udara Roga.

2. Introduction to Anaha, Adhmana, Atopa, Visuchika Alasaka, Vilambika.

3. Introduction to Peptic Ulcer, Irritable Bowel Syndrome (IBS) Diarrhoea, Dysentry, Constipation, Inflammatory Bowel Diseases.

IX. Diseases of Udakavaha Srotas

1(a) Introduction to Trishna, Daha.

1(b) Introduction to water and electrolyte imbalance disorders.

X. Diseases of Mutravaha Srotas

1(a) Mutrakrichha - Mutraghata.

1(b) Introduction to Urinary Tract Infection, Nephropathies.

XI. Diseases of Swedavaha Srotas

1(a) Introduction to Khalitya, Palitya.

XII. Diseases of Manovaha Srotas

1(a) Apasmara, Unmada, Atatwabhinivesha-Vishada, Anidra, Mada, Murchha, Sanyasa.

1(b) Introduction to Epilepsy, Depression, Anxiety neurosis.

XIII. Upasargajanya Vyadhi (Communicable diseases)

1(a) Romantika – Masurika – Upadamsha – Phiranga.

1(b) Introduction to Measels, Chickenpox, Leprosy, Tuberculosis and AIDS.

XIV. Krimi Vigyana

1) Definition, classification of Krimi and features of Krimiroga

2) Snayuka, Shleepada.

3) Introduction of Filariasis and classification of common parasites.

PRACTICAL

(100 Marks)

i) Fundamental Principles of Laboratory Tests

Introduction to laboratory, Sterilization, glass wares, solutions reagents and safety procedures, Disposal of biomedical wastes.

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ii) Haematology

1 Haemoglobin estimation.

- 2 Blood cells counting WBC, RBC, platelets.
- 3 Hematocrit /Packed cell volume (PCV).
- 4 Erythrocyte indices MCV, MCH, MCHC.
- 5 Peripheral blood smear, staining technique and differential leucocyte count.
- 6 Peripheral blood film examination in Anemia, Leukemia, Malaria, Filaria (Demonstration).
- 8 Screening test for bleeding disorders- bleeding time (BT), Clotting time (CT), Demonstration of Prothrombin time (PT).
- 9 Blood grouping ABO system, Rh typing (Rhesus system).

iii) Urine Examination

Ayurveda anusara mutrapariksha.

- 2. Physical Examination Volume, Reaction (Ph) & Specific Gravity.
- 3. Chemical Examination for Proteins, Glucose, Phosphate, Ketone, Bile salts, Bile pigment.
- 4. Dipstick examination
- 5. Demonstration of Microscopic Examination.

iv) Stool Examination

- 1 Ayurveda anusara purishapariksha.
- 2 Physical examination, Sama-Nirama Pariksha.
- 3 Microscopic examination of ova & cyst (Demonstration)
- 4 Occult Blood Test.

v) Demonstration of Sputum Examination

- 1 Ayurveda anusara sthivanapariksha.
- 2 Physical, Chemical and Microscopic Examination of the sputum.
- 3 Sample collection and Demonstration of AFB.

vi) Demonstration of Semen examination

- 1 Ayurveda anusara Retaspariksha.
- 2 Semen examination.

vii) Biochemical Examination – (Demonstration)

Blood Glucose, Serum Bilirubin, Blood Urea, Lipid Profile, Serum Creatinine, Serum Uric acid

- viii) Demonstration of different staining techniques in microbiology.
- ix) Demonstration of Sero-immunological Investigations: RA and Widal.
- x) Laboratory record maintenance of laboratory record book.

Bed side Practical (Clinical Methods)

- 1. Introduction and demonstration of clinical methods (General and Systemic Examination).
- 2. Practical demonstration of examination of Roga based on Pancha Nidana.
- 3. Demonstration of instruments used for clinical examination.
- 4. Practical records of clinical examination of at least 20 long cases in I.P.D including Aturbala-pramana pareeksha.
- 5. Practical records of clinical examination of at least 20 short Cases based on Ashta vidha pariksha in O.P.D.
- 6. Demonstration of ECG, USG and Radio imaging techniques.

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Distribution of Marks for final Practical Examination

- 1. Daily Record -10 Marks
- 2. Indentification of Instruments -10 Marks
- 3. Laboratory Experiments -20 Marks
- 4. Short Case -10 Marks
- 5. Long Case -20 Marks
- 6. Viva Voce -30 Marks

Total 100 Marks

Reference Books

- 1. Madhava Nidana (Madhukosha Pt. Yadunandan Upadhyay Commentary) Part 1 2
- 2. Doshakaranatwa Mimamsa Acharya P.V. Sharma
- 3. Nadi Darshan Vd. Tara Shankar Mishra
- 4. Nadi Vigyana Vidyotini Hindi Tika
- 5. Nadi Vigyan- Shri Satya Dev Vashisht
- 6. Nadi Vigyan- Gangadhar Tika
- 7. Rogi Pariksha vidhi Acharya- Priyavrata Sharma
- 8. Ayurvediya Roga Vargikaran- Vd. Ramanath Dwivedi & Vd. Gurdip Singh.
- 9. Ayurvediya Nidan Evum Chikitsa Ke Siddhanta Prof. Ram Harsh Singh.
- 10. Relevant portions of Charak Samhita, Sushrut Samhita and Vagbhata.
- 11. Text Book of Pathology- William Boyds.
- 12. Text Book of Pathology- Harsh Mohan.
- 13. Text Book of Pathology- Dey and Dey.
- 14. Text Book of Parasitology -Ramnik Sood.
- 15. Clinical Pathology and Bacteriology- S.P. Gupta.
- 16. Clinical methods in Ayurveda- K. R. S. Murthy.
- 17. Parameswarappa's Ayurvediya Vikriti Vigyan and Roga Vikriti Vigyan-Dr. P.S. Byadgi.
- 18. Oxford Handbook of Clinical Examination Oxford Handbooks and Practical Skills.
- 19. Advanced Clinical Evaluation System for Practical Assessment of Clinical Examination
- 20. Symptoms & Signs in Clinical Medicine Chamberlains.
- 21. Clinical Methods- Hutchison's.
- 22. Bedside Clinics in Medicine Part- I & II-Kundu.
- 23. Common Medical Symptoms- Mehta.
- 24. Advances in Pathology & Lab Med- Weimstean, Gralem, Anderson, Cortan, Wick,
- 25. Clinical Laboratory medicine Edited by Kenneth D Mc. Chately.
- 26. General Pathology- Walter & Israel Churchill Living stone.
- 27. A Comprehensive Dictionary of Pathology- Chris Newann.
- 28. Practical Pathology- Dr. K. Uma Chaturvedi.
- 29 .Clinical examination- Douglas/Macleod's.
- 30. Pathology Practical book for Undergraduates- Harsh Mohan.
- 31. Medical Laboratory Technology R. Sood.
- 32. Clinical Diagnosis and Management by Todd, Sanford and Davidson Laboratory methods
- 33. Clinical Hematology In Medical Practice- Degruchy's.
- 34. Robbins Basic Pathology- Kumar, Abbas, Fausto at al.

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2.3. Rasashastra Evam Bhaishajyakalpana

(IATROCHEMISTRY AND AYURVEDIC PHARMACEUTICS)

Theory -Two Papers Total Marks- 200 Teaching hours-200

Practical:-Total Marks-200 Teaching hours-200

RASASHASTRA

Paper 1 Part A

100 Marks 50 Marks

- Definition and etymology of Rasa, History of Rasashastra, Importance of Rasaushadhi, Concept of Rasa-Rasayana, Concept of Raseshwar Darshana. Concept of Rasashala and Rasamandap.
- Brief Description and Application of Technical terminologies (Paribhasha): Avapa, Nirvapa, Dhalana, Bhavana, Jarana, Murchana, Shodhana, Marana, Amrutikarana, Lohitikarana, Mruta Loha, Satwa Patana, Druti, Apunarbhava, Niruttha, Rekhapurna, Varitara.
- Dravya Varga: Amlavarga, Panchamrittika, Panchagavya, Panchamrita, Ksharashtaka, Dravakagana, Mitra panchaka, Rakta varga, Lavanapanchaka.
- **4.** Brief description of Yantras and their application Ulukhala Yantra, Khalwa Yantra, Kachhapa Yantra, Damaru Yantra Vidhyadhara Yantra- Urdhwapatan, Addhapatan & Tiryakpatana Yantra, Jaranartha Tulayantra, Dolayantra, Patalayantra, Palika Yantra, Baluka Yantra, Bhudhara Yantra, Sthali Yantra, Swedana Yantra.
- 5. Brief description & application of Musha (Crucible): Samanya Musha, Gostani musha, Vajra Musha, Maha musha, Yoga musha, Vrintaka Musha, Malla / Pakwa musha. Different types of crucibles e.g. Silica crucible, platinum crucible. Mudra and Sandhi Bandhana.
- **6.** Brief description & applications of Chullika, Satwapatana Koshthi, Patala Kosthi, Gara Koshthi, Angarakoshthi and knowledge of various heating appliances viz. Gas stove, Hot plate, Heating mantle, Induction Stove, Hot Air Oven.
- 7. Concept, definition and types of Puta: Suryaputa, Chandraputa, Gomayaputa, Lawakaputa, Kukkutaputa, Kapotaputa, Varahaputa, Gajaputa, Mahaputa, Kumbhaputa, Valukaputa, Bhudharaputa, Applications of Electric muffle furnace and fuel (diesel) dependent furnace. Brief introduction to thermocouple and pyrometer.

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8. Knowledge of Parada: Synonyms, Occurrence, natural and artificial sources of Parada, Hingulottha parada, Types of Parada, Parada Dosha: Naisargika, Yougika, Aupadhika (Kanchuka). Grahya-Agrahya Parada, Parada gati, Parada bandha, Shodhana of Parada. Parada sanskara and brief description of Ashtasamskara.

9. Concept of Murchhana and Jarana of Parada, Preparation of Kajjali, Classification of Rasaushadhi: Khalvi rasa e.g. Tribhuvana Keerti Rasa, Parpati Rasa- Rasa Parpati, Kupipakva Rasa- Rasa sindur, Pottali rasa - Hemagarbha pottali. Rasa sevana vidhi and

pathya and apathya.

10. Brief introduction of quality control, standardization and GMP of Rasaoushadhies.

50 Marks Part B

Occurrence, Synonyms, Minerological identification, Sources, Types, Grahya and Agrahyata, Shodhana, Marana and other processing techniques. Properties, dose, anupan and therapeutic uses, pathya – apathya and ashuddha, apakwa and avidhee sevanjanya dosha and its management, important formulations of the following:

- 1. Maharasa Abhraka (Biotite Mica), Vaikrantha, Makshika (Chalco-pyrite), Vimala (Iron Pyrite), Shilajatu, Sasyaka (Peacock ore), Chapala and Rasaka (Sphalerite).
- 2. Uparasa Gandhaka (Sulfur), Gairika (Red Ochre), Kasisa (Green Vitriol), Kankshi (Alum), Haratala (Orpiment), Manahshila (Realgar), Anjana and Kankustha.
- 3. Sadharana Rasa Kampillaka, Gauri pashana (Arsenic oxide), Navasadara (Ammonium chloride), Kaparda (Cowry), Agnijara, Giri Sindura (Red oxide of Hg), Hingula (Red Cinnabar) and Mriddara shringa (Litharge).
- 4. Dhatu -Swarna (Gold), Rajata (Silver), Tamra (Copper), Loha (Iron), Vanga (Tin), Naga (Lead), Yashada (Zinc), Kamsya (Bronze), Pittala (Brass), Vartaloha. Dhatu -graha sambandha.
- 5. Ratna Manikya (Ruby), Mukta (Pearl), Pravala (Coral), Tarkshya (Emerald), Pushparaga (Topaz), Vajra (Diamond), Nilam (Sapphire), Gomeda (Zircon or Cinnamone stone), Vaidurya (Cats eye). Ratnapariksha, Ratnadosha, Ratna-graha sambandha.
- 6. Uparatna- Vaikranta (Tourmaline), Suryakanta (Sun stone), Chandrakanta (Moon stone), Rajavarta (Lapis Iazuli), Perojaka (Turquise), Sphatikamani (Quartz), Trinakanta, Palanka, Putika, Rudhir.
- 7. Sudha varga Sudha (Lime stone), Kaparda (Cowries), Shukti (Oyster Shell) , Shankh Mriga shringa (Stag horn), Khatika, Godanti (Gypsum) and Samudraphena (Cattle Fish bone), Kukkutanda twak (Hen's Egg Shell).

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- Sikata varga Sikata (Silica), Dugdhapashana (Talc), Nagapashana / Jaharmohara (Serpentine), Badarshama (silicate of lime), Vyomashma (Sangeyashab Jade), Kousheyashma (Asbestos) and Akika (Agate).
- Kshara varga Sarja kshara (Sodium bicarbonate), Yava kshara, Tankana kshara (Borax), Surya Kshara (Potassium Nitrate).
- Miscellaneous Mandura, Bola, Dam-ul Akhawayan (Raktabandhini), Kasturi, Bhoonag, Mayurpiccha, Sarjarasa, Madhoocchishta.
- 11. Visha and Upavisha-Introduction, collection and storage, classification, synonyms, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of following Visha and Upavisha-Vatsanabha, Kuchala, Jayapala, Dhattura, Bhanga, Bhallataka, Gunja, Arka, Snuhi. Langali, Karaveera, Ahiphena and Chitrakmool.
- 12. Aushadhi Yoga Gyanam- ingredients, manufacturing process, and bheshajprayogvidhi. Arogya Vardhini Gutika, Kasturibhairava Rasa, Kumara Kalyana Rasa, Garbhapala Rasa, Chandraprabha Vati, Chandramrita Rasa, Pratapalankeshwara Rasa, Pravalapanchamrita Rasa, Anandbhairava Rasa, Yogendra Rasa, Laxmivilas Rasa, Vasantakusumakara, Vasantamalati Rasa, Brihat Vata Chintamani Rasa, Shankha vati, Shwaskuthara Rasa, Hinguleswara Rasa, Hemagarbhapottali, Hridyarnava Rasa, Swarnavanga, Makaradhwaja, Putapakwavaisham Jwarantaka Loha, Vatvidhvamsan Rasa, Kamadugha Rasa, Laghusutshekhar Rasa, Navayasa Loha, Saptamrita Loha, Tamra Parpati, Panchamrita Parpati, Sveta Parpati.
- 13. Introduction to pharamcovigilance and its status in India, with reference to Ayurvedic
 - drugs.

 A) Necessary to know From part A and B : S. No. 1 to 9
 - B) Desired to know From part B: S. No. 10

100 Marks
Practical

Minimum Twenty five practicals to be performed

Rasa [Parada]

2 Maharasa varga

3. Uparasa varga

Samanya Shodhana of Parada Kajjali Mugdha rasa Shodhana of Abhraka Dhanyabhraka nirmana Shodhana of Makshika Shodhana of Shilajatu Shodhana of Sasyaka. Shodhana of Gandhaka Shodhana of Gairika

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Shodhana of Kasisa Shodhana of Kankshi Shodhana of Haratala Rasa manikya nirman Shodana of Manashila Shodhana of Hingula Sodhana of Navasadar Shodhana of Kapardika Shodhana of Shankha Shodhana of Shukti Shodhana of Pravala mula Shodhana of Godanti Samanya Shodhana of Lauha Shodhana of Mandura Samanya Shodhana of Tamra Shodhana of Naga Shodhana of Vanga Shodhana of Yashada Shodhana of Tankana Preparation of Rasaparpati, Bola Parpati and Swetaparpati Shodhana of Vatsanabha, Bhallataka, Kupilu, Dhattura beeja, Jayapala, Gunja, Chitrakamoola.

Sadharana rasa varga Sudha Varga 5. Dhatu varga

Kshara Varga **Parpati**

Visha varga

PRACTICAL FOR DEMONSTRATION / GROUP PRACTICALS

- 1. Hingulad rasakrishti (Hingulottha Parada).
- 2. Bhasma: 4 (One from each group)
 - Abhraka bhasma, Swarna Makshika bhasma, Tamra bhasma
 - Vanga bhasma, Naga bhasma, Yashada bhasma
 - ii. Mandura bhasma, Kasisa bhasma
 - Shankha bhasma, Kapardika bhasma, Godanti bhasma. iii. iv.
- 3. Pishti : 1 Pravala pishti, Jaharmohara / Akika pishti, Trina kantha mani pishti, Mukta pishti.
- 4. Druti : 1 Gandhaka druti.
- 5. Formulations 4 (one from each group)
 - Rasasindura, Swarna vanga, Sameer pannaga rasa
 - Saptamruta lauha, Punarnava mandura, Navayasa lauha ij.
 - Agnitundi vati, Tribhuvana kirti rasa, Sootshekhara rasa, Laghusutashekhara Rasa
 - Arogyavardhini vati, Laghumalinivasanta rasa, Hinguleshwar rasa, iv. Anandbhairav rasa, Rajapravartini vati

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BHAISHAJYAKALPANA

Paper II

100 Marks

50 Marks

Part A

History and Chronological (kramika vikasa) development of Bhaishajyakalpana.
 Concept of Aushadha and Bheshaja.

- 2. Fundamental principles of Bhaishajya Kalpana.
- Study of Ancient and Contemporary systems of 'Maana' (Units of measurement), Shushka -ardra -drava- dravya grahan niyam (Rules of measures of dry, fresh, liquid drugs); Grahyagrahyatva, Nava Puran dravya grahan niyam.
- 4. Guidelines and Methods of collection, storage, preservation of Aushadhi dravya. Concept of Saviryatavadhi (shelf life) and stability in ancient and contemporary science.
- 5. Bheshajprayogavidhi : Aushadha Matra, Anupana and sahapan and Aushadh sevan kaala. (Posology).
- 6. Panchavidha kashaya kalpana and Other kalpana: Kashaya Yoni, Swarasa, Kalka, Kwatha, Hima and Phanta, Pramathya, Aushadha siddha paniya, Tandulodaka, Laksha rasa, Mantha, Panaka, Arka, Churna, Rasakriya, Ghana, Phanita, Avaleha, Prasha, Gudapaka, Sharkara, Syrups, Ksheerapaka, Satva, Guggulu kalpana, Vati, Guti, Pinda, Modaka, Varti Preparation of Tablets, pills, capsule and Suppositories. Masi kalpana, Lavana kalpana, Kshara kalpana and Kshara sutra.
- 7. Introduction and general knowledge of useful instruments/ Equipments Disintegrator, Mixer, Grinder, End Runner, Edge Runner, Sieve-Shaker, Granulator, Tableting machine, Pill making machines, coating and polishing pan, capsule filling machine, sieves and mesh.
- 8. Sneha kalpana: Sneha yoni, Types of Sneha, Sneha murchana vidhi, Sneha paka vidhi, patra paka, types and their use. Sneha siddhi lakshana, dose, Preparation and uses of Triphala Ghrita, Bramhighrita, Narayana taila, Anutaila.
- 9. Sandhana Kalpana and its types: Madya Kalpana, Asava, Arishta, Sura (Prasanna Kadambari Medaka Jagala Bakkasa), Maireya, Surasava, Shukta, Kanjika, Sauviraka, Tushodaka, Sidhu kalpana their methods of preparation, siddhi lakshana, properties, uses, doses. Takrarishta, Draksharishta, Ashokarishta, Dashamoolarishta, Kumaryasava, Chandanasava.

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10. Kritanna and Aushadhisiddha anna Kalpana: Definition of Kritanna, Concept of Pathya and Apathya, Yavagu -types of yavagu, Manda, Peya, Vilepi, Anna, Bhakta, Odan, Yush -types, Krishara, Mansa rasa, Vesavara, Khad Kamblika, Raga, Shadava, Dadhi and Takra Varga - Takra, Udasvita, Katvar, Mathita, Chhachika.

PART B

- 1. Bahyopacharartha kalpana (External Applications)-Lepa -Types of Lepa, methods of preparation and mode of application. Udvartan and Avachurnan, Method of preparation of Siktha Taila, Malahara – Sarjarasa Malahara, Gandhak Malahara, Upanaha, Atasi upanaha, Shatadhouta and Sahastradhouta Ghrita. Brief introduction of semi solid dosage forms- Ointments, Creams, Emulsions, Gels, Lotions.
- 2. Principles and precautions for preparation of formulations for following:
 - 2.1 Netraupacharartha kalpana (Opthalmic preparations) Seka, Drava, Pindi, Anjana - Ashchyotana - Tarpana - Putapaka and Vidalaka, Methods of preparation
 - 2.2 Nasyopachararth Kalpana Classification of Nasya, Navana, Avapidana, Pradhaman, Marsha and Pratimarsha nasya.
 - 2.3 Dhumapanarth kalpana Classification of dhumpaan, Method of preparation of dhumvarti and it's therapeutic uses. Dhupan: Vranadhupan, arshodhupan.
 - 2.4 Mukhaprayogarth kalpana Gandoosha Kavala Pratisaran, Tooth paste, Tooth powders and Mouth wash.
 - 2.5 Basti kalpana- Classification, Method of preparation of Niruha and Anuvasana, Basti Therapeutic properties and uses of Basti.
 - 3 Brief knowledge of Standardization of Ayurvedic formulations- Kasthaushadhi.
 - 4 Brief introduction of Drug and Cosmetics Act 1940 and Rules 1945.
 - 5 Concept of, Aushadhi Nirmanshala, with respect to Good Manufacturing Practices (GMP) in accordance to Schedule T.

Practical Bhaishajya Kalpana

50 Marks

Following practicals to be performed- (Minimum one from each category)

Method of preparation, therapeutic uses, dose and anupana of the following

- Swarasa- Ardraka swarasa, Tulasi swarasa, Kumari Swarasa, Vasa putapaka swarasa 1.
- Kalka- Nimba kalka, Rasona kalka.
- Kwatha- Punarnavasthaka kwatha, Rasna Sapthaka kwatha, Kulattha kwath. 2. 3.
- Hima- Dhanyaka hima, Sarivadi hima . 4.
- Phanta- Panchakola phanta, Yastimadhu Phanta. 5.

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- 6. Pramathya- Mustadi pramathya
- 7. Mantha- Kharjuradi mantha
- 8. Aushadh siddha paniya- Shadanga paniya
- 9. Laksha Rasa.
- 10. Arka Yavani arka, Gulab arka, Misreya arka
- 11. Panaka- Chincha panaka, Chandan panaka.
- 12. Sharkara- Banapsha sharkara, Nimbu sarkara.
- 13. Churna- Sitopaladi Churna, Hinguwashtaka Churna.
- 14. Gutika- Chitrakadi Gutika, Sanjivani Vati.
- 15. Guggulu-Triphala Guggulu, Kaishora Guggulu.
- **16.** Avaleha- Chyavanaprashavaleha, Vasavaleha, Vyaghri Haritaki avaleha, Manibadra avaleha.
- Rasa kriya Darvi Rasakriya, Guduchi Ghana, Kutaja Ghana.
- 18. Khanda- Haridra khanda, Narikela khanda, Sowbhagya shunti paka
- 19. Satva- Amruta satva,
- 20. Varti- Phala varti, Chandrodaya varthi
- 21. Lavana- Arka lavana, Narikela lavana
- 22. Masi- Triphala masi, Mayurpiccha Masi
- 23. Ksheerapaka- Arjuna ksheerapaka, Rasona ksheerapaka, Shunthi Ksheerpaka
- 24. Kshara- Apamarga kshara, Snuhi kshara, Ksharasutra. .
- 25. Manda, Peya, Vilepi, Yavagu, Krishra, Vesavara
- 26. Yusha Mudga yusha, Saptamushtika yusha, Kulattha yusha
- 27. Aristha- Kutajarishta, Takrarishta .
- 28. Asava Kumaryasava, Kanakasava
- 29. Sukta kalpana- Kanji
- 30. Udaka- Tandulodaka
- 31. Upanaha- Atasi Upanaha
- Siktha Taila Nirmaan
- 33. Malahara- Sarjarasa malahara, Gandaka malahara, Cream, Emulsion. Sneha Kalpana

 Kalpana

 Chrita Murchana, Taila Moorchhana, Ghrita, kalpana: Jat

Sneha Murchhana - Ghrita Murchana, Taila Moorchhana, Ghrita kalpana: Jatyadi ghrita, Triphala ghrita, ksheerashatphala ghrita- Taila kalpana-Panchaguna taila,Arka taila, Bala taila,Jatyadi taila

- 35. Taila patana- Bhallataka taila patana, Jayapala taila patana
- 36. Shodhana- Guggulu, Hingu.

II. Visit of minimum three GMP approved Ayurvedic manufacturing units.

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Distribution of Practical Marks: Total 200 Marks

Rasashastra	-	100
 Record Book Experiment Spotting Viva-voce 	- - -	10 Marks 30 Marks 20 Marks 40 Marks
Bhaishajyakalpana		100
 Record Book Experiment Spotting Viva-voce 	-	10 Marks 30 Marks 20 Marks 40 Marks

Reference Books

- 1. Adyatan Rasa Shastra
- 2. Abhinav Rasa Shastra
- 3. Asava Arishta Vigyanam
- 4. Ayurvediya Rasa Shastra (Sachitra)
- 5. Ayurvediya Rasa Shastra
- 6. Rasa Bhaishajya Paribhasa
- 7. Ayurvediya Rasa Shastra
- 8. Ayurved Prakash
- 9. Drugs and Cosmetic Act 1940
- 10. Paka Darpana
- 11. The Paka-darpana of King Nala
- 12. Parada Vigyaniyam
- 13. Pratyaksha Aushadh Nirmanam
- 14. Bhaishjyakalpana Vigyanam
- 15. Rasa Tarangini
- 16. Rasa Darpan
- 17. Rasa Bindu
- 20. Rasa Bhaishajya Kalpana Vigyan Vaidya
- 21. Rasa Mitra
- 22. Rasa Ratna Samuchchaya (Hindi)
- 23. Rasaratna samuchchaya-
- 24.Rasaratna samuchchaya

R.K. Goyal

Vaidya Somadev Sharma

Dr. Pakshdhar Jha

Chandrabhusan Jha

Badrinarayan Pandey

Sureshananda Thapaliyal

Prof. Siddhi Nandan Mishra

Vaidya Gujrat Mishra

Dr. Indradev Tripathi

Dr. Madhulika critical study

Vasudev M. Dwivedi

Acharya VishwanathDwivdei

Dr. Agnihotri

Sadanand Sharma

Prof. Bhajan Das Swami

Dr. Sanjay Sharma

Santosh Kumar Khandal

Dr. Tryambak Nath Sharma

Dattattreya Ananta Kulkarni.

Ambikadatta shastri

Damodar Joshi

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25. Rasa Shastra Prayogiki Srivastava,

26. Rasamritam

25. Rasayan Sara

26. Rasendra Sampradaya

27. Rasendra Sara Sangraha

29. Vaidyak Paribhasha Pradeep (Hindi Translation)

30. Sharangadhara Samhita

31. Bharatiya Bhaishajya Kalpana Vigyana

32. Bhaishajya Kalpana Vijnanam

33. Rasa Shastra (English)

34. Rasa Ratna Samuchchaya (English)

35. Rasendra Chintamani (Hindi)

36. Ayurvedic formulary of India

38. Ayurvedic Pharmacopiea of India , CCRAS

39. Bhaishjya Kalpana Vigyan

40. Textbook of Rasashasra

41. Ashadhayoga Vigyanam

42. Vaidyaka Paribhasha Pradipa (Enlgish Translation)

43. Relevant parts of Brihatrayee

44. Text book of Bhaishjya Kalpana -

45. Text Book of Rasa Shastra

46.Rasa Chandashu

47 .Bhaishjya Ratnawali

48 Yoga Ratnakar

Yadav and Prof. Ramesh Saxena Vaidya Yadavji Tirkramji Acharya

Vaidya Shyam Sunderacharya

Vaishya

Vaidya Hajari Lal Sukul

Vaidya Gopal Krishna

Dr. Indradev Tripathi

Dr. Radhakrishna Parashar

Gananath Vishwanath Dwivedi

Dr. K Ramachandra Reddy

Prof. Damodar Joshi

Prof. Damodar Joshi

Prof. Siddhinandan Mishra

Siddhi Nandan Mishra

Dr. K Ramachandra Reddy.

Dr. K. Ramachandra reddy

Dr. K. Ramachndra Reddy &

Dr. P. Suresh

Dr Shobha G Hiremath

Dr P H C Murthy

Prof S S Savirkar (CCRAS Publication)

Prof S N Mishra

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2.4 CHARAKASAMHITA -PURVARDHA

(Sutrasthana, Nidanasthana, Vimanasthana, Sharirasthana and Indriyasthana)

Theory- One Paper- 100 Marks Lectures - 200 Hours

Part A

40 Marks 1. Sutrasthana 10 Marks 2. Indriyasthana

Part B

15 Marks 1. Nidanasthana 20 Marks 2. Vimanasthana 15 Marks 3. Sharirasthana

Reference Books

1. Charakasamhita -Ayurveda Dipika commentary by Chakrapani.

2. Charakasamhita (Hindi Commentary): Vaidya Jayadev Vidyalankar or Vd. Atridev Vidyalankar or Prof. Gorakha Nath Chaturvedi & Kashinath Shastri or Dr. Brahmanand Tripathy or Dr. Ravi Dutta Tripathy

3. Charakasamhita (English Commentary): Dr. Ram Karan Sharma & Vd. Bhagwan

Dash or Acharya Priyavrata Sharma.

4. Charakasamhita-Ayurveda Dipika Commentary-Hindi Translation by Dr. B L Gaur, published by Rashtriya Ayurved Vidyapeeth.

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CENTRAL COUNCIL OF INDIAN MEDICINE NEW DELHI SYLLABUS OF AYURVEDACHARYA (BAMS) 3rd Year

INDEX

3.1. AGADTANTRA			02-04	
3.2. SWASTHAVRITTA	j.		05-12 13-17	
3.3. PRASUTI TANTRA EVUM STRI ROGA 3.4. KAUMARBHRITYA PARICHAYA			18-21	
3.5 CHARAK SAMHITA (UTTARARDHA)			22	2

Course Part: Proff III Separate Passing Head: No, Min: 0, Max: 1050
Term: Proff III Separate Passing Head: No, Min Courses: 12, Max Courses: 12, Min:0, Max:1050

The papers for ProffIII - ProffIII are classified into following groups:

Compulsory Group (Min Papers: 12, Max Papers: 12, Separate Passing Head: No, Max. Marks: 0)
 Select minimum 12 paper(s)
 Select maximum 12 paper(s)

Papers:

В	AMS-301		Agad Tantra, Vyavhar Ayurved Evam	Vidhi Vaidyak	
В	AM S-301	PR	Agad Tantra , Vyavhar Ayurved Evam	Vidhi Vaidyak	Practical
В	AMS-302	E	Swasthavritta and Yoga-I		
В	AM S-302	Í	Swasthavritta and Yoga-II		
В	AM S-302	PR	Swasthavritta & Yoga Practical		
В	AMS-303	1	Prasuti Evam Striroga-I		
В	AM S-303	11	Prasuti Evam Striroga-II		
В	AM S-303	PR	Prasuti Evam Striroga Practical		
В	AM S-304		Balroga		
В	SAM S-304	PR	Balroga Practical		
В	SAM S-305	У.	Charak Samhita (Uttrardh)		
E	BAM S-305	PR	Charak Samhita (Uttrardh) Practical		

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3.1 AGADTANTRA, VYAVAHAR-AYURVED EVUM VIDHIVAIDYAK

(TOXICOLOGY, FORENSIC MEDICINE AND MEDICAL JURISPRUDENCE)

Theory One Paper - 100 Marks Practical/Viva voce -50 Marks Theory -200 hrs Practical - 100 hrs

Part- A

50 Marks

- 1 Derivation, definition of Visha and Agadatantra. Scope of Agadatantra. Visha Utpatti, Visha Prabhava, Visha Pranaharana Kriya, Visha Guna, Visha Gati, Visha Vega Visha Sankata, Shanka Visha.
- 2 Definition of toxicology, Definition of poison, suicidal and homicidal poisons, classification of poisons, their action and route of administration, absorption, excretion, metabolism, diagnosis and general principles of treatment, duties of a medical practitioner in case of suspected poisoning.
- 3 Origin and Classification of Visha:-Its sources, Difference between Visha, Madya and Oja guna, Visha Upadrava and Visha Mukta Lakshana.
- Tests for detection of Visha, and Modern Toxicological Techniques of detection of poisons Visha Data Lakshana, Visha Peeta Lakshana, Signs and symptoms of Visha afflicted organs and personal effects. (Poisoning with Anjana, Lepa paduka, Abharana etc.
- 5 Introduction to Environmental Toxicology- Samuhika Vishaprayoga- effect of chemical and nuclear warfare.
- 6 Vishopakrama described by Charak, General principles of Management of poisoning.
- 7 Manifestation of poisoning due to poisons of plant origin their fatal Dose, fatal period, management of poisoning, post mortem appearance and its medico legal importance. Visha and Upavisha- Arka, Snuhi, Langali, Karaveera, Gunja, Ahiphena, Dhattura, Bhallataka, Vatsanabha, Kupeelu, Jayapala, Bhanga & Tobacco, Parthenium hysteriphorus, Chitraka, Eranda, Digitalis and Cerebra Odallam.
- **8** Garavisha, Dooshivisha, Viruddhahara. Food adulteration and poisoning-classification, diagnosis, management and contemporary significance.
- 9 Jangama Visha Detailed study of Sarpa, Keeta, Loota, Vrischika, Mooshika, Alarka Visha; Lakshana, Bheda, Chikitsa and their Sadhyasadhyata (contemporary and classical views).
- 10 Introduction to poisoning due to Acids, Alkalis, metals, Non-metals, Asphyxiants and others, their Fatal Dose, Fatal period, Manifestation, management, medico legal importance and postmortem appearance of poisoning due to:
 - a) Acid and Alkalis Sulphuric acid, Hydrochloric acid, Nitric acid, Hydrocyanic acid, Oxalic acid, Carbolic acid, Formic acid, alkalis in general.
 - b) Asphyxiants Carbon monoxide, Carbon dioxide, Hydrogen sulphide
 - Nonmetallic poisons Phosphorous, Iodine
 Metallic poisoning Arsenic, Mercury, Lead, Copper, Zinc, Tin.

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- d) Others Petroleum Kerosene Organo phosphorus compounds -Aluminum phosphate, Organo Chlorinated Compounds, Household poisons.
- 11 Madya and Madatyaya. Alcohol poisoning (Ethanol and Methanol).
- 12 Introduction to Narcotic drugs and Psychotropic substances Act 1985.

Part -B

50 Marks

- Definition of Vyavahara Ayurveda (Forensic medicine) and Vidhivaidyaka (Medical jurisprudence), concise history of Vyavahara Ayurveda (Forensic medicine) and Vidhivaidyaka (Medical jurisprudence). Introduction to Indian Penal Code, Indian Evidence Act and Criminal Procedure Code.
- 2. Legal Procedures: Inquest, Evidence, Witness, Courts and their powers.
- 3. Personal identity and its Medico legal aspects, forensic odontology, Introduction to Forensic Serology and DNA profiling.
- 4. Death and its Medico Legal Aspects, Medico Legal autopsy and exhumation.
- 5. Injuries and thermal injuries, their medico Legal aspects, general introduction of weapons.
- 6. Dowry deaths (Domestic Violence), their Medico Legal importance and laws in relation to it.
- 7. Asphyxial deaths and its Medico Legal importance.
- 8. Medico Legal importance of Pregnancy, Delivery; Impotence & Sterility, Abortion, Infanticide, battered baby. Virginity, Artificial Insemination, Legitimacy.
- 9. Sexual offences, and their Medico Legal aspects. Sexual perversions.
- 10. Introduction to Forensic psychiatry.
- 11. Introduction to forensic laboratory.
- 12. Ethics as in classical Texts. Types of Vaidya, Pranabhisara and Rogabhisara Vaidya, Qualities of Vaidya, Responsibilities of Vaidya, Chaturvidha Vaidyavrutti, Duties of Vaidya to his patient, Vaidya Sadvrittam, Apujya Vaidya, Code of conduct.
- 13. Laws in relation to Medical practitioners: Indian Medicine Central Council Act.
- 14. Maintenance of medical record.
- **15.** Physician's responsibility in criminal matters, Professional negligence, Civil negligence, Criminal negligence, Medico Legal aspects of Acquired Immune Deficiency Syndrome, Rights of an unborn child, Medical Termination of Pregnancy Act Transplantation of

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human organs Bill 1994, Pre Natal Diagnostic Testing Act, Malingering of feigned diseases, International Code of Medical Ethics for Doctors. Clinical establishment Act. Consumer Protection Act 1986.

PRACTICAL

Practical Training

- 1. Post Mortem examination
- 2. Evidence in the court
- 3. Demonstrations in the Forensic & Toxicology museum (Toxic & Anti toxic substances, medico legal specimens & Charts)
- 4. Clinical postings
- 5. Library Hours for compilation

Distribution of Practical Marks

1.	Post Mortem examination and Court posting - Case Record	10 Marks
	Practical/Clinical Record Book	10 Marks
	Identification (spotting)	10 Marks
	Viva – voce	20 Marks

Total 50 Marks

Reference Books

- 1. Topics related to Agada Tantra from Charak Samhita, Sushrut Samhita, Ashtanga Hridaya, Ashtanga Samgraha, Kasyapa Samhitha, Yogaratnakara, Bhavaprakasha and Madhava Nidana.
- 2. Vidhivaidyaka (Vyavahar Ayurveda Vijnan)
- 3. Medical Jurisprudence and Toxicology
- 4. Basavarajeeyam
- 5. Agada Tantra
- 6. Text book of Agada Tantra
- 7. Agadatantra ki Pathyapustaka
- 8. Agad Tantra
- 9. Vishachikitsa

(Ayurveda Toxicology English Translation)

- 10. Medical Ethics and Medical Laws in India
- 11. Toxicology Ayurvedic Perspective
- 12. Kautilya Arthashastra (English)
- 13. Kautilya Arthashastra (Hindi)
- 14. Vyavahar Ayurveda
- 15. Vyavahar Ayurveda Vigyanam
- 16. Textbook of Forensic Medicine and Toxicology
- 17. Forensic Medicine
- 18. Relevant Acts
- 19. Relevant topics from Manu Smriti

Dr.Charuchandra Pathak

Modi

Edited by Vd.Govardhan

Sh. Ramanath Dwivedi

Edited by Dr Huparikar, Dr.Joglekar

Edited By Dr Huparikar,

Dr.Joglekar

Dr. Shekher Namboodri

Vaidya Balakrishnan Nair, Kerala

Dr. H.S. Mehta

VPSV Ayurveda college Kottakkal

Prof. Kangle

Dr. Raghunath Singh

Dr. Ayodhya Prasad Achal

Dr.Indramohan Jha (Sachchan)

Dr. V.V.Pillay

Dr. B. Umadathan

Govt. of India

*

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3.2 SWASTHAVRITTA

Theory- Two papers - 100 marks each Practical / Viva voce -100 marks
Lectures -200 Hrs
Practicals and demonstration - 100 Hrs

Paper-I

PART A- VAIYAKTIKA SWASTHAVRITTA

50 marks

Introduction

Definition of swastha & swasthya and swasthavritta. Arogya lakshana, swasthavritta prayojanam, WHO definition of health. Dimensions of health-Physical, Mental, Social.

Concept of wellbeing- objective, subjective, standard of living, quality of life.

Dinacharya

- 1. Definition of Dinacharya
- 2. Aims and importance of dinachary
- 3. Brahma Muhurta evam Utthana
- 4. Usha Jalapana
- 5. Sharirachinta
- 6. Malatyaga
- 7. Mukha prakshalan
- 8. Dantadhavana and preparation of Ayurvedic tooth powder and paste
- 9. Jihvanirlekhanavidhi
- 10. Anjana
- 11. Pratimarsha Nasya
- 12. Gandusha and Kavala
- 13. Tambulasevana
- 14. Dhoomapana
- 15. Abhyanga
- 16. Udvartana
- 17. Utsadana
- 18. Vyayama
- 19. Chankramana
- 20. Snana
- 21. Anulepana
- 22. Vastra dharana
- 23. Danda dharana
- 24. Padatra dharana
- 25. Chatra dharana
- 26. Ushnisha dharana
- 27. Ratnabharana dharana
- 28. Madhyahna charya
- 29. Cosmetic effect of Dinacharya procedures

Rathricharya

- 1. Sandhya charya
- 2. Rathri bhojana vidhi
- 3. Shayanavidhi according to Bhavamishra

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Ritucharya

1. Importance of ritucharya

2. Ritu presentation as per different acharyas

3. Adana kala & visarga kala

4. Sanchaya-Prakopa-Prashamana of Dosha according to ritu

5. Doshashodhana in Ritu Charya

- 6. Relation of Agni bala and Ritu
- 7. Pathya and Apathya Ahara and Vihara in different ritus

8. a) Ritusandhi

- b) Yamadamsthra
- c) Rituharitaki
- d) Rituviparyaya

Sadvritta

Description of Sadvritta and Achara Rasayana their role in Prevention and control of diseases.

Trayopastambha

Vargikaranam, Pramukhatva, Ahara dravya Swarupa, Nirukti, Aharavidhividhana, Dwadashashana pravicharana, Ashtaharvidhiviseshayatanani, Pathyahara, Apathyahara, Samashana, Adhyashana, Vishamashana, Ahara dushparinama & tajjanya vyadhaya, Santarpanajanya evam Apatarpanajanya vyadhi, Viruddhahara and its effects, Shadrasabhojanasya mahatwam.

Dietetic standards, Proximate principles of Food, Nutritional requirements, Sources and deficiency diseases of Protein, Carbohydrate, Fat, Vitamins and Minerals. Concept of balanced diet in Ayurveda, Nitya sevaneeya dravya, Balanced diet for different sections of people in the society, Social aspects of nutrition. Aharavarga - Dhanya varga(Cereals and millets), Shaka and Harita varga (Leafy and Non leafy vegatables), Kanda varga (roots and tubers), Phala varga (Fruits), Taila varga(Fats and Oils), Ikshu varga & Madhya varga(Alcoholic Beverages), Dugdha varga (Milk and Milk products), Masala and vyanjana dravyas (Spices & Condiments), Kritanna varga(Prepared Food), Mamsa varga (Meat types).

Food hygiene Milk hygiene-Milk composition, Source of infection (for Milk), Milk borne diseases, Clean and Safe milk, Pasteurization of milk. Meat hygiene-Meat inspection, Slaughter house, Freshness of fish and egg. Fruits

and Vegetables hygiene Sanitation of eating places, Preservation of food, Food handlers, Food borne diseases, Food fortification, and Food adulteration, Food toxicants, Properties of Vegetarian and Non- vegetarian diet, Effects of spices and condiments Consumption of Alcohol and its effects on personal and social health. Effects of pathya-apathya in life style disorders-Diabetes, Hypertension, Obesity and Coronary heart Disease.

- ii) Nidra- Nirukti and Utpatti, Types , Nidra Swasthya sambandha, Properties of Yukta Nidra, Effects of Ratri Jagarana, Diwaswapna, Anidra, Atinidra, Ahara and Vihara causing disturbed sleep , Ahara and Vihara Causing sound sleep. Duration of sleep according to age, Sleep in healthy and diseased persons.
- iii) Brahmacharya Brahmacharya and Abrahmacharya, Importance of Bharmacharya and Abrahmacharya, Vyavaya sambandhi niyama, Effects of

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Ativyavaya. Methods of Virya Raksha, Surataspriha(Libido) through Vajikarana, Virvanasa phala.

Roganutpadaniya- Concept of Vega- Adharaniya Vega and Dharaneeya Vega, Diseases due to vegadharana and their chikitsa, sharir shodhan.

Rasayana for Swastha-Nirukti, paribhasha(definition), classification and examples Ashta nindita purusha

Part B (YOGA AND NISARGOPACHARA)

50 marks

YOGA

Introduction

Menstrual hygiene

Yoga shabda utpatti, definitions, Different schools of Yoga - Rajayoga, Hathayoga, Mantrayoga, Layayoga, Jnanayoga, Karmayoga, Bhaktiyoga. Yoga prayojana Ayurveda yoga sambandha, swasthya rakshane yogasya mahatvam Yogabhyasa pratibhandhaka & siddhikara bhavas as per Hathayoga. Mitahara and Pathyapathyani during Yogabhyasa.

Panchakosha Theory

Astanga yoga

Yama, Niyama

Asana and its importance

Standing Postures

Ardhakatichakrasana, Padahastasana, Ardhachakrasana, Trikonasana.

Swasthika, Gomukhasana, Padmasana, Vajrasana, Bhadrasana, Shashankasana, Ushtrasana, Pashchimottanasana, Suptavajrasana, ardhamatsyendrasana, Siddhasana.

Supine Postures

Pavanamuktasana, Sarvangasana, Matsyasana, Halasana, Chakrasana, Shavasana, Setubandhasana.

Prone postures

Bhujangasana, Shalbhasana, Dhanurasana, Makarasana.

Suryanamaskara - procedure and benefits.

Pranayama

Benefits of pranayama, time of practice, avara-pravara-madhyama lakshana, yuktaayukta lakshana Nadishudhi Pranayama .

Kumbhakabheda – suryabhedana, ujjayi, sheetali, Sitkari, Bhastrika, Bhramari Murcha, Plavini.

Nadishudhilakshana

Shatkarma

Dhauti, Basti, Neti, Trataka, Nauli, Kapalabhati

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Bandhas and Mudras

Shad chakras, Ida-pingala-sushumna nadis.

Pratyahara, Dharana, Dhyana, Samadhi

Description of Yoga in Ayurveda

Moksha and Muktatma lakshana and upaya, Naishthiki chikitsa, Satyabuddhi, Tatvasmriti, Ashta Aishwarya, Ashta siddhis.

NISARGOPACHARA (Prakritika chikitsa)

Definition, history, aims and objectives

Theories as per Western school of Naturopathy

Indian school - Panchabhutopasana

Relation of Ayurveda and Naturopathy

Importance of Naturopathy in present era.

Jalachikitsa(hydrotherapy) - Hot water treatment, Cold water treatment, foot and arm bath, Spinal bath, hip bath, abdominal wet pack, Steam bath, enema and whirl pool bath.

Mrittika chikitsa (Mud therapy)

Types of soil, doctrine of mud selection, mud bath.

Suryakirana sevana (sun bath - heliotherapy)

Mardana (Massage) – different methods and effects.

Diet types - Soothing, Elimininative, Constructive, Positive and negative diet,

Acidic and alkaline diet

Upavasa chikitsa(Fasting therapy) - Importance, types, therapeutic effects of

Visrama chikitsa upayoga

PAPER II - SAMAJIKA SWASTHAVRITTA

Part A

50 marks

Janapadodhwamsa Causes, Manifestations and control measures, importance of Panchakarma and Rasayana.

Vayu (Air)

Vayu guna according to sushruta samhita, Properties of Vayu as per different directions, Vayu shudhi prakara – Ayurvedic aspect.

Composition of air.

Air of occupied room- Thermal discomfort and comfort zone, indices of thermal comfort. Air pollution - health and social aspects, Prevention and control of air pollution , Global warming.

Ventilation and its types.

Mountain air & High altitude - Health problems

Jala (Ayurvedic and modern aspects)

Importance of water , safe and wholesome water, water requirements, properties, types and sources of water, water pollution and health hazards, Methods of water purification. Hardness of Water.

Examination, Tests and analysis of water.

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Rain water harvesting and water recycling

Bhumi and nivasa sthana(Land and housing)

Types of soil, soil & health, Land pollution, Bhumi shodhana, Nivasa yogya bhoomi, Social goals of housing, Housing standards, Mahanasa (Kitchen) standards, Rural housing, Housing and health, Overcrowding.

Prakasha(lighting)

Requirement of good lighting, natural lighting, artificial lighting, biological effects of lighting.

Dhwani pradooshana(Noise pollution) -Noise, Sources, effects,& control Vikirana(Radiation)- sources, effects and control

Apadravya Nirmulana (Disposal of solid waste)

Different types of solid waste
Storage and collection of refuse
Methods of disposal of solid waste (Rural & urban)
Bio-medical waste management

Malanishkasana Vyavastha (Excreta Disposal)

Methods for Unsewered area and Sewered area

Latrines for camps, fairs and festivals

Disposal of dead body - Burial, Burning, Electric cremation.

Meteorology (Ritu evam Vatavarana jnanam)

Definition of weather and climate, factors influencing weather and climate.

Disaster management

Definition, natural and man-made disasters, epidemiologic surveillance and disease control.

Occupational Health

Occupational Hazards, Occupational Diseases, Prevention of Occupational Diseases, Health & precautionary measures, ESI Act, Indian factories Act.

Offensive Trades- Effects on health and precautionary measures .

School health services

Health problems of school children, aspects of school health service, duties of school medical officers, Maintenance of healthy environment

Epidemiology

Concept of Epidemiology, Dynamics of disease transmission, concept of diseases, concept of causation, Epidemiological triad, natural history of disease, concept of control, concept of prevention, Risks factor, modes of intervention, incidence and prevalence. Susceptible host, host defenses, Immunizing Agents, Disease prevention and control,investigation of epidemic.

Disinfection - definition, types.

Ayurvedic concept of Vyadhikshamatva and sankramaka rogas.

Epidemiology of communicable Diseases

Chicken Pox, Measles, Diphtheria, Pertussis, Mumps, Tuberculosis, SARS, Influenza, Pneumonia, Cholera, Polio, Viral Hepatitis , Typhoid, Leptospirosis, Dengue Fever, Chikungunia, Malaria, Filariasis , Leprosy, Rabies , Tetanus, Emerging and re-emerging diseases

Kuprasangaja vyadhi (STDs) AIDS, Syphilis, Gonorrhoea, Chanchroid

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Non-communicable disease epidemiology

Diabetes, Obesity, Hypertension, Coronary Heart Diseases, Rheumatic Heart Disease, Cancer

Chikitsalaya Bhavana (Hospital Building)

50marks Part B

Prathamika swasthya samrakshana(Primary Health Care) Definition, principle, elements, levels of health care. Structure at village, sub centre, PHC,CHC, Rural hospital levels. Health insurance, Private agencies, Voluntary health agencies, NGOs and AYUSH sector. Role of Ayurveda in Primary Health Care.

Parivara kalyana Yojana (Family welfare Programmes) - Demography, demographic cycle, life expectancy. Family planning, methods of family planning.

Matru sishu kalyana Yojana - MCH programme

Ante natal, intra natal, post natal, neo natal care. Child health problems and indicators of MCH care.

Preventive geriatrics-Problems of elderly, prevention and control measures.

World Health Organisation-Objectives, structure and functions. International health agencies-United Nations agencies, Health work of bilateral agencies.

Alma Ata declaration **National Health Policy**

Health statistics- Definition, Sources, uses Data collection, Classification, Presentation. Vital statistics-Morbidity rates, Mortality rates , Fertility rates. Health survey

Swasthya prashasana (Health Administration) - Health administration at Central including AYUSH, state, district, village levels.

National health programmes

Tuberculosis(RNTCP), Leprosy(NLEP), AIDS (NACP), Blindness (NPCB), Polio(PPI), Diabetes (NDCP), Cancer (NCCP), Guinea worm, Vector born disease control programme, NRHM, all the upcoming national health programmes, RCH programme, Universal Immunization Programme.

National Nutritional Programmes - IDD, Vitamin A prophylaxis, Mid day meal, anemia control programmes.

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PRACTICALS

Demonstration of Dinacharya procedures- anjana, nasya, kavala, gandoosha dhoomapana, abhyanga, udvarttana.

Parichaya of aharadravya, immunization agents, disinfectants and family planning devices

Practical demonstrations of Asanas mentioned in the syllabus Pranayama (Suryabhedana, Ujjayi, Shitali, Sitkari, Bhastrika, Bhramari and Nadishuddhi) and Shad karmas(Jala dhauti, Jalaneti, Sutraneti, Trataka, Kapalabhati).

Preparing and delivering of a health educational talk on health related issues. A short compilation on any topic on environmental health.

Educational Visits

Observe the functioning of the Milk Dairy, Water purification unit, Sewage treatment unit, MCH/Family welfare centre, Leprosy hospital and industraial unit.

Visit to Primary Health Centre for knowledge of actual implementation of National health programmes including knowledge of rural health.

Visit of rural Ayurvedic dispensary.

Visit to naturopathy centre to observe naturopathic treatment modalities.

Health survey- Minimum 5 families of rural and urban areas.

There should be 3 case sheets for Yoga Naturopathy & pathya apathya together and 3 case sheets for communicable diseases.

Proformas for Case sheets/practical records/survey/Dinacharya projects etc should be prepared by the respective universities.

Practical and Viva Voce examination

М	arks	distribution	18.1	100 marks
		Vaiyaktika Swasthavritta		20
		Samajik swasthavritta		20
		Demonstration of Yoga		10
				10
		Naturopathy		10
		Journal and compilation work		30
	6.	Viva voce		30

Reference Books:

Relevant portions of Charaka, Sushruta, Vagbhata, Sarngadhara, Bhavaprakasha, Yogaratnakara, Madhavanidana and Bhelasamhita.

Swasthavritta Samucchaya
Swasthya Vigyan
Swasthya Vigyan
Swasthavritta
Swasthavritta
Ayurveda Hitopadesh
Yoga and Ayurved
Swasthavritta vigyan
Swasthavrittam

Pandit Rajeshwar dutt ShastriDr. Bhaskar Govind Ghanekar

- Dr. Mukund swarup Varma

- Vaidya Sakad

Dr. Ranade and Dr. FirkeVaidya Ranjit Rai DesaiAcharya Rajkumar Jain

- Dr. Ramharsha Singh

- Dr.Brahmanand Tripathi

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Swasthavrittam
Ayurvediya Swasthavritta
Patanjala yogasutra
Hathayogapradipika
Gheranda samhita
Yoga Paddhati
Yogik Chikitsa
Sachitra Yogasan darshika
Yoga deepika

Yoga deepika
Light on Yoga
Light on Pranayama
Yoga and yoga chikitsa

Foundations of Contemporary Yoga Yoga Sidhant evam Sadhana Prakritik chikitsa Vidhi

Prakritik chikitsa vigyan Preventive and Social Medicine Preventive and Social Medicine Janasankhya Shiksha Sidhanta

Evam upadesya

Health Administration in India Health and family welfare

Positive Health

Biogenic Secrets of food in Ayurveda

Smriti granthon mein nihit Swasthaprakara samagri

Dr. Reddy's comprehensive guide

to Swasthavritta

Nutritive value of Indian foods Yoga and Nisargopachar

Prachin Vangmay mein prakritic chikitsa

Swasthavritta Food and nutrition

Organology and sensology in yoga

Yoga-A game for Women

- Dr. Shivkumar Gaud

- Vaidya Jalukar Shastri

- Patanjali Maharshi

- Swatmaram Yogendra

- Gherand Muni

- Bharatiya Prakritik Chikitsa Parishad

Shri. Kedar Nath GuptaDr. Indramohan JhaShri. B.K.S. Iyengar

- Shri. B.K.S. Iyengar - Shri. B.K.S. Iyengar

Dr. Ramharsha SinghDr. Ramharsha Singh

- Harikrishna Shastri datar

- Sharan Prasad

VermaJ. Park

- Baride and kulkarni - Dr. Nirmal Sahani

- S.C.Seel - T.L.Devaraj - L.P. Gupta - L.P.Gupta

- Dr. Smt. Nigam Sharma

- Dr.P.sudhakar Reddy

- ICMR

- Vd. Prama Joshi

- swami Anant Bharati, CCRYN

- Vd Yashwant Patil and Vd. Vhawal

- Swaminathan -Prashant S Iyengar -Geeta S Iyengar

Yoga-A game for Women(hindi translation)-Madhu Pandey

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3.3 PRASUTI TANTRA & STRIROGA

Marks 200 (100marks each paper)
Practical-100 marks
HOURS Theory-200 Hrs
Practical-100 Hrs

PAPER-1 PRASUTI TANTRA

PART-A

INTRODUCTION TO SUBJECT

STRI SHARIRAVIJNAN

Etymological origin of the word Stri. Artava vaha and Stanyavaha strotamsi. Tryavarta yoni Stri Vishishta, Peshi Marmani.

Anatomy of female reproductive system.(External and internal genital organs) Soft & Bony Pelvis and its obstetrical importance.

DESIRABLE (non detail)

Vayobhedena Stri sangnya

RAJO VIGYANA

Description of Raja, Artava and Prathama Rajo Darshana, Rajasvala Charya. Ritumati Lakshana, Ritumaticharya, Ritukala

Menarche, Menstrual cycle and their regulation by endocrine glands,

Ovulation -Importance in conception

DESIRABLE (non detail)

Concept of Stri Sukra

GARBHA VIGYANA

a) Garbhasya paribhasha, Garbhadhanavidhi, Garbhavakranti, Garbha Sambhava samagri, Garbhakara bhava, Panchabhautikatwa of Garbha, Masanumasika Vridhi of Garbha, Garbha Poshana, Garbhasayasthe Garbhasthiti

Foetal attitude, lie, position, presentation

b) Apara, GarbhaNabhinadi, Jarayu, Ulba

Formation, Development, Function of Placenta, Umbilical cord, Amniotic fluid

Foetal membranes -Abnormalities of Placenta

DESIRABLE (non detail)

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billows

Garbhalingotpatti, Garbhasya Avayavotpatti, Garbha Varnotpatti, Garbha Vikriti

GARBHINI VIGYANA

- a) Lakshana of Sadhyograhita Garbha, Lakshana of Vyakta Garbha, Pumsavana vidhi Diagnosis of Pregnancy
- b) Garbhini vyavastha: Garbhini Paricharya, Garbha Upaghatakara Bhava, Dauhrida Ante Natal care-Examination, Investigation and Management
- c) Garbha Vyapada: Nidana, Samprapthy and Chikitsa Garbhasrava and Garbhapata Garbha shosha-Upavishtaka, Nagodara, Upashushka, Leena garbha,
 Antarmrita garbha, Raktagulma, Bahugarbhatha
- d) Abortions, Rh-incompatability Causes, clinical features, complications and management.

Gestational trophablastic neoplasias, Ectopic pregnancy, IUGR, Intrauterine foetal death, Multiple pregnancy

GARBHINI VYAPAD

a) Hrillasa, Chardi, Aruchi, Atisara, Vibandha, Arsa, Udavarta, Sotha, Parikarthika, Vaivarnya, Kandu, Kikkisa, Pandu, and Kamala, makkala

b) Common ailments of Pregnancy-High Risk Pregnancy, Emesis gravid arum, Gestational Anemia, Gestational Hypertension, Gestational Diabetes, Toxemias of Pregnancy, Jaundice, AIDS,

Ante Partum Hemorrhage causes, clinical features complications and Management

PART B

PRASAVA VIGYANA

- a) Prasava Paribhasha,Prasavahetu,Prasavkaala, Sutikagaranirmana, Sangrahaniya Dravyani, Sutikagara praveshavidhi.
- b) Prasavavastha; Prajayani/ Upasthita Prasava/ Asannaprasava lakshana, Aavi. Prasavaparicharya, Jatamatraparicharya
- c) Normal Labour:-Definition of Labour, Physiology & Mechanism of Labour, Monitoring of Labour and management, Pictogram, Episiotomy, care and resuscitation of newborn.

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PRASAVA VYAPAD

- a) Garbhasanga, Yonisamvarana, Aparasanga, Mudagarbha-defenition, Nidana, Types & Management
- Induction and augmentation of labour, Cervical dystocia, Cephalopelvic disproportion, Prolonged labour, Preterm labour, Post term labour, foetal distress, Assisted Labour, Caesarian
- c) Retention of Placenta, PPH causes, clinical features and management, Genital tract Injuries during labour

DESIRABLE (non detail)
Uterine Inversion, Amniotic Fluid Embolism, Garbhasthithi parivarthan(Version), Forceps Delivery, Ventouse Delivery.

SUTIKA VIGYANA

a) Sutika Paribhasha, Sutika Kaal, Sutika paricharya. Changes during sootika avastha(Sareerika&Manasika)

Normal and abnormal Puerperium and its Management

- b) Sutika Roga Number of Sutika Roga, Sutika Jwara, Shotha and Makkala.
- c) Stanyavijnan- Sthanyadushti, Sthanyakshaya, Sthanyavridhi -their causes, clinical features and treatment
- d) Emergency care in obstetrics

DESIRABLE(non detail)Stana stanya –Pareeksha,Stanya sampat.

PART-2 STRI ROGA

PART-A

ARTAVA VYAPAD

- a) Artava-kshaya vridhi, Ashtartavadushti lakshana chikitsa
 Asrigdara lakshana samprapti Chikitsa
- b) Menstrual disorders-Amenorrhoea, hypomenorrhoea, Oligomenorrhoea, Dysmenorrhoea, Abnormal uterine Bleeding

YONI VYAPAD

Sankhya, Nidana, Lakshana, Upadrava evam Chikitsa

Endometriosis, Fibroid uterus, Genital Prolapses, Retroverted Uterus, Pelvic infections, Cervical erosion, Pelvic Inflammatory Diseases

VANDHYATWA – Prakar, Nidana , Chikitsa Infertility – Causes, Types, Investigations and Management.

Yoni Kanda, Yoni Arsa, Granthi, Arbud,

Pelvic Infections including Sexually Transmitted Infections, HIV, AIDS, Preventive measures.

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MENOPAUSE-changes during menopause ,menopause syndrome, management.

DESIRABLE (non detail)
Congenital malformations of female genital tract.
Sukra vijnan –kshaya ,vridhi,dushti hetu lakshana and chikitsa
Benign and Malignant tumours of Genital Tract

PART-B

STANA ROGA

- a) Stanakeela- nidana lakshana chikitsa, Stanagranthi, Stanavidradhi, Stanashoph Mastitis, Breast abscess, Galactocele -Etiopathology, clinicalfeatures, diagnosis, prognosis and complications
- Sthanik Chikitsa
 Snehana, Swedana, Uttarabasti, Pichu, Varti, Lepana, Dhupana, Dhavana, Dahana, Ksharakarma -. Practical knowledge of all these procedures along with indications, complications and management.

Shastra Karma

Surgical procedures their Indications, Contraindications of cauterization of cervix, cervical dilatation and curettage, female surgical sterilization

Knowledge of indication and procedure of PAP smear. Endometrial biopsy and interpretation of the reports

Stri roga Sambandhita Pramukha Aushadhyai, Prasuti & Stri Roga Chikitsa Upayogi Yantra Shastra Parichaya and Vyadhivinischaya Upaya (Investigative and Diagnostic Aids)

Garbhanirodhaka Upaya.

Parivar Niyojana, Reproductive and Child Health Care, AIDS/HIV control Programme, MCH, PNDT Act, MTP Act, and importance of current National Programme

Knowledge of important Commonly used Ayurvedic and Allopathic drugs used in Prasutitantra and Streeroga. Pharmacotherapuetics of allopathic drugs in obstetrics and Gynaecology

Record keeping, ethical and medicolegal issues in Streeroga and prasutitantra

DESIRABLE (non detail)

Laproscopy, hysteroscopy, hysterosalphingography, USG, X-RAY, Colposcopy, Cervical Biopsy. Granthi evum Granthi nirharan samanyajnan (Myomectomy, hysterectomy)

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CLINICAL TRAINING-OBSTETRIC SKILLS

To perform independently

- 1. History taking and examination of antenatal and gynaecological cases
- 2. Diagnosis of Pregnancy, assessing of gestational period, to diagnose onset of labour
- 3. To monitor labour progress, able to plot Partogram
- 4. Observation of 10 labour
- 5. To diagnose abnormalities of labour and decide about the referral of the patient
- 6. Able to provide first aid for obstetric emergencies
- 7. Recognition of post partum complications
- 8. Councelling and promoting of breast feeding
- 9. Record 5 antenatal cases, 5 intrapatum, 5 post partum cases

To observe/assist-D&C, D&E, Caesarean section, Repair operations, Resuscitation of new born.

GYNAECOLOGICAL SKILLS -To perform independently

- 1. History taking and examination of gynaecological cases
- 2.Recording 10 gynaecological cases, 5 gynaecological procedures
- 3. Taking vaginal smear, high vaginal swab
- 4. Practical knowledge of sthanika chikitsa
- 5. Observation and practical knowledge of minor gynaecological procedures
- 6.Observation of Surgical procedures
- 7.Identification, uses., Demonstration of surgical instruments
- 8. Observation of Method of sterilization, MTP, Surgical procedures Hystrectomy, Oopherctomy

DISTRIBUTION OF PRACTICAL MARKS

1.Case taking-2cases -one Gynec, one obstetric- 30marks 2.Instruments , Drugs, & Models-20 marks

3.General Viva-

40 marks

4.Record -2-(one Prasuti, one streerog)-10 marks Total 100 marks

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3.4. Kaumarbhritya (Ayurvedic Pediatrics)

Theory One Paper - 100 Marks Practical Viva Voce - 50 Marks

Paper I

100 Marks

Kaumarbhritya Parichaya Evum Balaka Paricharya (Introduction to Ayurvedic Pediatrics and Child Care)

Part A

50 Marks

- 1. General introduction and scope of Kaumarbhritya (Ayurvedic Pediatrics), Definitions and terminologies used in Kaumarbhritya.
- 2. Scientific contribution of Kashyapa Samhita in Kaumarbhritya.
- 3. Vayobheda (Classification of age): Garbha, Bala, Kumara; Kshirada, Kshirannada & Annada etc. and modern classification of childhood period.
- 4. Prana Pratyagamanam (Neonatal Resuscitation): Methodology; complications and their management (Ayurvedic and modern view). Assessment of gestational age.
- 5. Navajata Shishu Paricharya (Neonatal Care): Care of the Jatmatra (Newly born child) and the Sadyojata, Care of the Samaya-purvajata Shishu (Preterm), Purnakalika Shishu (Full term), and Samaya-Paschatjata Shishu (Post term neonate), Nabhinala Chhedana (Cutting of umbilical cord), Complications of improper cutting of umbilical cord and its treatment, Rakshoghna Karma (Protective measures- Ayurvedic and modern view).
- 6. Navajata Shishu Parikshana (Examination of newborn): Ayu-Parikshana, Modern approach to Neonatal Examination
- 7. Navajat Shishu Poshana (infant feeding): Specific feeding schedule as per Ayurvedic texts and modern concept; Stanya-Sampat (Properties of normal breast milk) Stanyotpatti (Physiology of lactation), Stanya Sangathana (Composition of breast milk), Stanya Parikshana (Examination of breast milk), Stanya-Piyusha (Colostrum); Stanya-Pana-Vidhi (Techniques of breast feeding), Stanyakshaya-Stanyanasha (Inadequate production and absence of breast milk), Dhatri (wet nurse)- Stanyabhave dugdh Vyavastha (alternative feeding in the absence of breast milk), Various other milk feeding methods.
- 8. Stanyadosha (Vitiation of Breast milk), Stanya Shodhana (Purification of breast milk), Stanya Janana and Vardhanopakrama (Methods to enhance breast milk formation).
- Garbha Vridhi Vikasa Krama: Samanya Parichaya (brief monthwise development of fetus), Milestones of development during infancy and childhood including concepts of various Samskaras.
- 10. Poshana (Nutrition): Normal requirements of nutrients and common food sources.
- 11. Dantotpatti evum Danta Raksha Vidhi (Dentition and dental care): Danta-sampat (Characteristics of healthy teeth), Danta Nisheka evum Dantodbheda (Eruption of teeth), Dantodbhedjanya Vikara (Dentition disorders).

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- 12. Vyadhikshamatva: General concepts of Bala (Immunity) and methods of Bala Vriddhi.
- 13. Prashan & Lehana: Indications, contra-indications, different drugs used in lehana
- 14. Knowledge of National Programs related to Child Health Care: Reproductive and Child Health (RCH) Program, Community Child Health Programs, Nutritional Programs, National Immunization Program and other programs incorporated by Goyt, of India from time to time

Part B

50 Marks

Samanya Chikitsa Siddhanta and Balaroga (General Principles of Treatment and Management of Pediatric Disorders)

- 1. Bala Pariksha-vidhi Evam Shishu Vedana Parigyan (Examination of sick child and Diagnostic methods-Ayurvedic and modern). Samanya Chikitsa Siddhanta (General principles of treatment in children).
- 2. General Aushadhl Matra Nirdharana for Ayurvedic and modern drugs preparations (drug doses according to age, weight and drug contents)
- 3. Specific therapeutic panchakarma procedures in children with special emphases on snehan, swedan and basti.
- Prasava Kaleena Abhighata (Birth injuries): Shwasavrodha (Asphyxia neonatorum), Ulvaka, Upashirshaka (Caput Succidanum and Cephalohaematoma), Facial Paralysis, Erb's Paralysis, Bhagna (fractures).
- 5. Brief description of Sahajavyadhi (Congenital disorders): Sahaja Hridaya Vikara (Congenital Cardiac Disorders) Jalashirshaka (Hydrocephalus), Khandaoushtha (cleft lip), Khanda-Talu (cleft palate) Sanniruddha Guda (Anal stricture / imperforated anus), Pada Vikriti (Talipes equanovarus and valgus), Spina bifida, Meningocele, Meningomyelocele.
- 6. Brief knowledge of genetic disorders): Down syndrome, Turner Syndrome, Muscular dystrophy, Sickle-Cell Anemia, Thalassaemia, Sahaja Madhumeha (Juvenile diabetes).
- 7. Prasavottara Vyadhi (Neonatal disorders): Navajata Kamala (Neonatal Jaundice), Navajata Netrabhishyanda (Neonatal conjunctivitis), Nabhiroga (Umbilical disorders), Navajatshishu-raktavishmayata (Neonatal Septicemia)
- 8. Dushta Stanyapanajanya Vyadhi (Disorders due to Vitiated Milk): Lactose intolerance, Kshiralasaka, Kukunaka, Ahiputana (Napkin Rashes)
- 9. Kuposhanajanya Vyadhi (Nutritional disorders): Karshya, Phakka, Balashosha and Parigarbhika (Protein Energy Malnutrition), Vitamin and Micro-nutrient deficiency disorders, Hyper-vitaminosis, failure to thrive.
- 10. Aupasargika Vyadhi (Infectious Diseases): Karnamula Shotha (Mumps), Romantika (Measles), Rubella, Masurika (Chicken Pox), Rohini (Diphtheria), Kukkura-Kasa (Whooping Cough), Dhanurvata (Tetanus), Krimiroga (Worm Infestations), Antrika Jwara (Typhoid), Mastisakavarnashotha (Meningitis), AIDS, Dengue, Malaria, Rajayakshma (Tuberculosis), Jivanujanya Yakrit Shotha (Hepatitis)

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1. Srotas Vikara:

- a) Pranavaha Srotas: Pratishyaya (common cold), Kasa (Cough), Shwasa (Respiratory distress syndrome), Tamaka Shwasa (Bronchial Asthma), Utphuliika, Swasanaka Jwara (Pneumonia/Pneumonitis, Bronchiolitis), Gala shotha (Pharyngitis, Laryngitis), Talukantaka (Tonsillitis)
- b) Annavaha_ Srotas: Ajirna (Indigestion), Atisara (Diarrhoea), Chhardi (Vomiting), Vibandha (Constipation), Mukhapaka (Stomatitis), Gudapaka (Proctitis), Parikartika (Anal fissure), Udarshula (Infantile Colic), Pravahika (Dysentry), Gudabhransa (Rectal Prolapse). Ama and its disorders like Ama vata jwara (Rheumatic fever).
- c) Rasavaha Srotas: Jwara (Fever), Pandu (Anemia), Mridbhakshanajanya Pandu (Anemia associated with clay eating/Pica).
- d) Raktavaha Srotas: Kamala (Jaundice), Raktapitta (Haemorrhagic disorders), Yakritodara (Hepatomegaly).and Pieehodara (Spleenomegaly)
- e) Mamsa-Medovaha Srotas: Apachi (Lymphadenitis), Galaganda (Goitre), Gandamala (Cervical Lymphadenopathy).
- f) Mutravaha Srotas: Shopha in Vrikka (Glomerulonephritis and Nephrotic syndrome)
- 2. Anya Bala Vikara (Miscellaneous Pediatric Disorders), Apasmara (Epilepsy), Akshepa (Convulsions), Nirudhaprakasha (Phimosis), Cerebral palsy.
- 3. Behavioral Disorders of Children, their management and counseling: Breath holding spell, Shayyamutra (Bed wetting), Pica, Unmada, Autism, ADHD (Attention Deficit and Hyperactive Disorders), Jadatwa (Mental retardation).
- 4. Pran raksha vidhi (Life saving measures in children): Principles of management of Shock and Anaphylaxis, Poisoning, Foreign body in respiratory tract, Status epilepticus, Hemorrhage, Acute Renal Failure, Febrile Convulsion, Status Asthmaticus, Fluid and Electrolyte Management.
- 5. Balagraha: General description, classification, clinical features and management.

PRACTICAL

Content of Practical / demonstration

- 1. Clinical training of above mentioned disorders of children.
- 2. Exposure to
 - a) Navajata Shishu Paricharya (Care of the newborn)
 - b) Pranapratyagamana Vidhi (Resuscitation procedure of new born)
 - c) Vaccination
 - d) Panchakarma Vidhi (Panchakarma procedures) especially Snehan, Swedana, Basti.
- 3. Knowledge of various equipments such as phototherapy unit, overhead radiant warmer, resuscitation equipments, Panchakarma equipments and their application
- 4. Knowledge of IV fluid administration, blood sampling
- 5. Anthropometry measurements and their interpretation
- 6. Various Ayurvedic & modern Procedures and investigations in pediatric practice

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Distribution of Marks

Clinical work: Pediatric and neonatal case records [1.0 case sheets of each]

Patient Examination

Spotting

Viva - voce

Total

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2

10 Marks

20 Marks

05 Marks

15 Marks

50 Marks

Reference Books

- Kashyapa Samhita Complete Hindi translation by Satyapa Vidhyalankara English translation by Prof. Premvati Tiwari
- 2. Principles & practice of Pediatrics in Ayurveda: Dr. CHS Shastry
- 3. Child Health Care in Ayurveda: Prof. Abhimanyu Kumar
- 4. Ayurvedic Concepts of human Embryology: Prof. Abhimanyu Kumar
- 5. Kaumarbhritya by Prof. D.N. Mishra
- Kaumarbhritya Ke Antargata Balgraho Ka Kramika Evam Vaigyanika Adhyana by Prof. Chanchal Sharma
- 7. Notes on Kaumarbhritya-by Dr. Dinesh K S
- 8. Pran Pratyagannanann-by Dr. B.M. Singh
- 9. Ayurveda Dwara Matra Evam Shishu Paricharya by Dr. KS Patel, V.K. Kori & Raigopal
- 10. Kaumarbhritya related references from Charaka Samhita, Sushruta Samhita Vagbhata etc.
- 11. Clinical Methods in Paediatrics by Meharban Singh
- 12. Pediatrics Emergencies by Meharban Singh
- 13. Essential Pediatrics 0,P. Ghai
- 14. Text Book of Pediatrics Nelson
- 15. Care of New Born by Meharban Singh
- 16. Panchakarma in Pediatrics Dr. Yogita Srivas

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3.5. CHARAK SAMHITA- UTTARARDHA

(Uttarardha: Chikitsa - Kalpa - Siddhi Sthana)

Theory- One Paper - 100 Marks

The marks of theory examination are distributed as follows:

Chikitsa sthana

60 Marks

2. Kalpa sthana

15 Marks

3. Siddhi sthana

25 Marks

Reference Books

1. Charak Samhita -Chakrapani Tika (Sanskrit Commentary)

2. Charak Samhita (Hindi Commentary) Vd. Jayadev Vidyalankar or Vd. Atridev Vidyalankar or Prof. Gorakh Nath Chaturvedi & Kashinath Shastri or Dr. Brahmanand Tripathy or Dr. Ravidutta Tripathy

3. Charak Samhita (English Commentary): Dr. Ram Karan Sharma & Vd. Bhagwan Dash or

Acharya Priyavrata Sharma.

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CENTRAL COUNCIL OF INDIAN MEDICINE NEW DELHI SYLLABUS OF AYURVEDACHARYA (BAMS) 4th Year

INDEX

4TH PROFESSIONAL 02-04 4.1 KAYACHIKITSA 02-04 4.2 PANCHKARMA 05-10 4.3 SHALYA TANTRA 11-20

4.4 SHALAKYA TANTRA 21-26 4.5 RESEARCH METHODOLOGY AND MEDICAL STATISTICS 27-28

Course Part: Proff IV Separate Passing Head: No, Min: 0, Max: 1100
Term: Proff IV Separate Passing Head: No, Min Courses: 12, Max Courses: 12, Min: 0, Max: 1100
The papers for Proff IV - Proff IV are classified into following groups:

1. Compulsory Group (Min Papers: 12, Max Papers: 12,

Separate Passing Head: No, Max. Marks: 0)

Select minimum 12 paper(s)

Select maximum 12 paper(s)

Papers:

BAMS-401 (I)	Kayachikitsa – (I)
BAMS-401 (II)	Kayachikitsa – (II)
BAMS-401 PR	Kayachikitsa - PR
BAMS-402	Panchkarma
BAMS-402 PR	Panchkarma - PR
BAMS-403 (I)	Shalaya Tantra (I)
BAMS-403 (II)	Shalaya Tantra (II)
BAMS-403 PR	Shalya Tantra - PR
BAMS-404(I)	Shalakya Tantra (I) Netra Roga Vigyan
BAMS-404 (II)	Shalakya Tantra (II) Shira - Karna - Nasa - Mukha Roga
BAMS-404 PR	Shalakya Tantra - PR
BAMS-405	Research Methodology & Medical Statistics

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4.1 KAYACHIKITSA

Theory Two Papers - 100 Marks Each Practical/Viva voce - 100 Marks

100 Marks

Paper I

50 Marks

Part - A

1 Derivation of the terms 'Kaya', 'Chikitsa' and their definitions and synonyms. Definition of 'Kayachikitsa, Definition of 'Bheshaja'. Types and detailed description of Bheshaja and Chikitsa, Knowledge about Chikitsa Chatushpada, Rogi Roga Pariksha Siddhantha,

2 Importance of Kriya Kaala according to stages of Dosha and their management.

3 Chikitsa sutra and Management of vriddhi (increased) and kshaya (decreased) of Dosha, Dhatu and Mala, Ojo Vyapat (Kshaya, Visramsa and Vyapat) and its (Doshapratyanika, Chikitsasutra Chikitsa management. Vyadhipratyanika, Ubhayapratynika), Doshopakrama, Chikitsa sutra and Management of Prashamana Sthanantara Dosha (Ashayapakarsha, Anuloma/Pratiloma gati of Dosha, Vimarga gamana of Dosha), Knowledge of Lina Dosha & its management, Diagnosis, Chikitsa Sutra and Management of Avarana and of Dhatu Pradoshaja diseases, Importance of Dosha, Dushya , Bala, Kaala, Agni, Prakriti, Vaya, Sattva Satmya, Desha, Ahara and stage of diseases in treating them. Chikitsa Sutra and Management of 'Samanyaja and

description of Dvividhopakrama (Santarpana and Apatarpana) and Shadavidhopakrama (Rookshana, Snehana, Swedana, Sthambhana, Langhana and Nanatmaja' diseases. Brimhana). Detailed description of Shodhana, Shamana and Nidana Parivarjana. Knowledge of Aushadha matra, Sevan kaala and Anupana, Definition and Knowledge

of Pathya-Apathya with examples of diseases of various systems. 5 Derivation of the term 'Manas', its sthana (place), Guna (qualities) and Karma (functions). Samanya Chikitsa Siddhanta of Manasa Roga.

6 Principles & Management of Nutritional deficiency disorders. 7 Management of Vardhakyajanita vikara, Indriyapradoshoja vikara, Alzhiemer's Disease,

8 General introduction and principles of Management of diseases produced by Genetic, Environmental and Iatrogenic factors. Disorders due to drug and Food allergy and their management and other allergic conditions.

50 Marks

 Detailed description of Chikitsa Sutra and Management of Jwara and its types. Etiopathogenesis & relevant Ayurvedic and Modern management of following types of Fevers-Typhoid, Pneumonia, Pleurisy, Influenza, Mumps, Meningitis, Encephalitis, Tetanus, Yellow fever, Plague, Dengue Fever, Chikun Guniya, Leptospirosis, Viral Fever, Anthrax, Masurika (Small pox), Laghu Masurika (Chicken pox), Romantika (Measles).

1. Chikitsa sutra and Management of the diseases of Rasavaha Srotas such as - Pandu, Amavata, Madatyaya, Hridroga, Hridshoola, Hypotension, Hypertension, Anaemia,

2. Chikitsa sutra and Management of the diseases of Raktavaha Srotas such as -Raktapitta, Kamala, Kumbhakamala, Halimaka, Daha, Mada, Murcha, Sanyasa, Vatarakta, Plihadosha, Yakrut dosha, Haemolytic disorders, Hepatitis, Cirrhosis of Liver, Leukaemia, Kushta, Shvitra, Visarpa, Sheetapitta, Udarda, Kotha and Kshudra Roga.

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3. Knowledge of National Health Programmes and the relevant Ayurvedic Management of the following diseases enlisted by World Health Organisation- Malaria, Filaria, Kala Azar, Leprosy, Tuberculosis, AIDS.

4. Introduction of general principles of maintenance of health and management of diseases of following systems of Medicine- Yoga, Naturopathy, Unani, Siddha,

Physiotherapy and Rehabilitation.

5. Diseases of different Endocrine Glands- such as Thyroid, Parathyroid, Pituitary, Pancreas and Adrenal glands and their management.

6. General introduction, types and Management of diseases caused by Vyadhi Kshamatwa

Hinata (Immuno deficiency disorders), Auto Immune Disorders.

7. Description and Management of following Emergency Conditions- Acute Haemorrhage, Hypertensive Emergencies, Acute abdominal pain (Renal colic, Biliary colic, Gastritis, Pancreatitis, Peritonitis and Appendicitis), Acute Abdomen, Anuria/ Oliguria, Congestive Heart Failure, Myocardial Infarction/Angina, Shock, Syncope, Convulsions, Hyperpyrexia, Hyperglycaemia, Hypoglycaemia, Status Asthmaticus, Acute Respiratory distress Syndrome, Drowning and Electric shock.

PAPER II 100 Marks

Part A 50 Marks

1. Chikitsa sutra and Management of the diseases of Pranavaha Srotas such as - Kasa, Shwasa, Hikka, Rajayakshma, Urakshata, Parshwashoola, Bronchitis, Bronchiectasis, Emphysema and COPDs.

2. Chikitsa sutra and Management of the diseases of Udakavaha Srotas such

as- Shotha, Jalodara, Trishna, Water & Electrolyte Imbalance.

3. Chikitsa sutra and Management of the diseases of Annavaha Srotas such as – Agnimandya, Aruchi, Ajirna, Anaha, Atopa, Adhmana, Alasaka, Vilambika, Visuchika, Chardi, Grahani, Amlapitta, Gulma, Shoola, Bhasmaka, Acid peptic disorders.

4. Principles of treatment and management of Vata Vyadhi such as - Pakshavadha, Ekangavata, Sarvangavata, Ardita, Avbahuka, Kati Graha, Manyastambha, Gridhrasi, Vishwachi, Khalli, Khanja, Pangu, Padaharsha, Padadaha, Vatakantaka, Kroshtukashirsha, Udavarta, Kampavata, Dhatugata and Ashayagata Avarana Vata, other Vata Rogas, Parkinsonism.

5. Nidana and Chikitsa of Urusthambha, Gullian Barrie syndrome, Muscular Dystrophy,

Myasthenia Gravis, Motor Neuron Diseases and Neuralgia.

Part B 50 Marks

1. Chikitsa Sutra and Management of Mamsavaha Srotas and Medovaha Srotas such as- Gandamala, Galaganda, Mamsashosha, Arbuda, Apachi, Prameha, Sthaulya, Karshya, Diabetes Mellitus, Dyslipidaemia.

 Chikitsa Sutra and Management of 'Asthi and Majjavaha Srotas such as Asthimajja Vidradhi, Asthisoushirya, Asthi kshaya, Sandhigata Vata, Osteo Arthritis,

Osteomyelitis, Osteoporosis, Osteopenia.

3. Chikitsa sutra and management of Shukravaha srotas such as Klaibya, shukralpata, shukradosha, kshina shukra, dhwajabhanga.

4. Chikitsa Sutra and Management of diseases of Mutravaha Srotas such as -Mutrakricha, Mutraghata, Ashmari, Cystitis, Nephritis, Nephrotic Syndrome, BPH, Renal Failure.

5. Chikitsa Sutra and Management of diseases of Purishavaha Srotas such as – Atisara, Pravahika, Arsha, Purishaj Krimi, IBS and Ulcerative Colitis.

6. Chikitsa Sutra and Management of Sexually Transmited Diseases such as – Phiranga, Puyameha, Upadamsha, lymphogranuloma inguinale, Syphilis, Gonorrhoea.

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7. Introduction, Definition and Management of Kama, Krodha, Lobha, Moha, Mada, Matsarya, Shoka, Bhaya, Vishada, Dainya, Harsha and Pragyaparadha.

8. Manas and Manovahasrotas, Nidana and Chikitsa of the following disorders - Unmada-Apasmara-Atattvabhinivesha, Chittodvega, Vishada, Anxiety disorders, Depression, Somatoform and Mood disorders, Stress induced disorders, Psychosexual Disorders. Importance of Daivavyapashraya, Sattwavajaya, Adravyabhuta Chikitsa. Medhya Rasayana in the management of Manasa Roga. Bhuta Vidya diagnosis and management of graha disorders.

9. Derivation, definition and synonyms of Rasayana, importance of Rasayana and its benefits. Indications of Rasayana therapy. Classification of Rasayana. Kutipraveshika and Vatatapika Rasayana. Indications of Vatatapika Rasayana. Knowledge of Kayakalpa, Achara Rasayana. Procedures of Kutipraveshika, Poorvakarma and specific schedules to be followed after Kutipravesha, benefits of Kutipraveshika Rasayana, duration of process, Rasayana yoga and directions for their use. Determination of dose of Rasayana according to age. Rules and regulation after Rasayana therapy, Importance of Immunomodulators and antioxidants in Rasayana

10. Vajikarana- Derivation, definition, synonyms, necessity, benefits, importance of fertility, Symptoms of Shûkra (Semen), Vajikaran Dravya and Aushadhi. Properties, doses, methods of administration, ingredients and methods of formation of Rasayana &

Vajikarana formulation. Classification and importance of Vajikarana Dravya

Distribution of practical Marks 100

- 20 marks 1) Daily case record/ 20 cases 2) Patient examination - 20 marks a) 1Long case - 10 marks b) 1 short case 3) Viva -voice - 25 marks a) Paper I - 25 marks

Reference books:

b) Paper II

1. Charak Samhita, Sushrut Samhita, Ashtanga Samgraha and Ashtanga Hridaya with their commentries. Madhav Nidana with Madhukosha Commentary.

- Yadavji Trikamji Ayurvediya Vyadhi Vigyana - Priyavrat Sharma Roga Pariksha Vidhi

-Haridasa Sridhar Kasture 4. Panchakarma Vigyan -Pandit Rajesvardutta Shastri 5. Cikitsadarsha

-Ramaraksha Pathaka 6. Kayachikitsa I-IV -Prof. R.H.Singh. 7. Ayurved Nidan Chikitsa Siddhanta -Prof. Ajay Kumar

8. Kayachikitsa Vol. I-IV. 9. Davidson's Principles and Practice of Medicine.

10. API Text Book of Medicine.

11. Harrison's Text Bok of Medicine.

12. Cecil Text Book of Medicine.

13. Panchkarma Illustrated by Dr. G. Srinivasacharya.

14. Other relevant publications on subjects concerned

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4.2. PANCHAKARMA

Theory One Paper - 100 Marks

Practical Viva-voce - 50 Marks

Hours of teaching Theory - 100

Clinical training: 3 months

I. Introduction

- 1. Introduction to Panchakarma, Panchakarma and Shodhana, its importance for promotion of health, prevention and treatment of diseases.
- 2. Trividha Karma- Purva, Pradhana and Pashchat Karma in relation to Shodhana and their importance.
- 3. Indications of Shodhana, Shodhana according to Ritu
- 4. General Principles of doshagati from Koshta to Shaka and vice versa
- 5. General precautions (Pariharya Vishaya) for Panchakarma
- 6. Specifications of Panchakarma theatre and necessary equipments
- 7. Importance of Koshta and Agni Parikshan

II. Snehana

- Etymology and Definition of Sneha and Snehana
- 2. Snehayoni- Sthavara and Jangama: Properties of Sneha dravyas, Snehopag Dravyas
- 3. General knowledge of Ghrita, Taila, Vasa and Majja with their specific utility and actions ,Yamaka, Trivrit and Maha Sneha
- 4. Metabolism of fat
- 5. Achcha and Pravicharana of Sneha
- 6. Snehapaka and its importance in Panchakarma
- 7. Types of Snehana: i) Bahya and ii) Abhyantara Snehana

i) Bāhya Snehana:

Methods, indications and contraindications of the following types of Bahyasnehana; Mardana, Unmardana, Pādāghāta, Samvāhana, Karna Purana & Akshi Tarpan, Lepa,

Murdhni Taila: Siro-Abhyanga, Shiro Seka/dhārā, Siro Pichu and Siro-Basti

ii) Ābhyantara Snehana

Three Types of Ābhyantara Snehana: Shodhanārtha, Shamanārtha and Brimhanārtha Snehana, Indications and contraindications for Snehana

Shodhanārtha Snehana

- a. Importance and method of Deepan Pāchan and Rookshana in Shodhanārtha Snehana. Properties of Rookshana Dravya. Samyak Rookshana Lakshana
- b. Consideration of Agni and Koshtha in Snehana
- Indication of Different Matra, Various dose schedules for Shodhanārtha Snehana;
 Hraseeyasi, Hrasva, Madhyama and Uttama Mātrā, Ārohana Mātrā
- d. Methods of Shodhanārtha Snehana,
- e. Anupāna of Sneha

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f. Jeerna and Jeeryaman Lakshana

g. Samyak Yoga, Ayoga and Atiyoga of Snehana, Sneha Vyāpat & their management according to Ayurveda & Modern Medicine

h. Diet and regimen during Snehana

Sadyo Sneha: Method of administration, dose fixation and utility Shamanārtha Snehana, Method of administration, dose fixation and utility

Bronhanarth Senhana: Method of administration, dose fixation and utility

Avapeedak Sneha: Method of administration, dose fixation and utility

8. Snehana Kārmukata (mode of action)

9. Special Procedures:

Takradhara, Udvartanam, Putpāka, Aschotana, Anjana, Gandusha, Kavala, Dhoompāna, Udvartana, Utsādana, Udgharshana, Talapothichil

III. Svedana

- 1. Etymology and Definition of Sveda and Svedana
- 2. Classifications of Sveda/Svedana
- 3. General Sweda dravya, Properties of Sweda dravyas, Swedaopag dravyas,
- 4. Indications and contraindications of Svedana
- Ten Types of Niragni Svedana
- 6. Knowledge of 13 types of Sagni Svedana and Chaturvidh Svedan
- 7. Detailed Knowledge with their Utility of the following Svedana procedures: Sankara/Pinda Sveda-Ruksha and Snigdha Sveda Patrapinda Sveda, Jambir Pinda Sveda, Vāluka Sveda, Churna Pinda Sveda, Kukkutand Pinda Sveda, Shashtika Shalipinda Sveda, Nadi Sveda, Bashpa Sveda Ksheer dhooma ,Ksheer Seka, Kwath Seka, Avagaha Sveda,Dhanymla Dhara Parisheka Sveda, Pizichil, Upanaha Sveda, Annalepa
- 8. Local Basti such as Kati Basti, Janu Basti, Greeva Basti and Urobasti
- 9. General precautions during Sagni Svedana and Methods to protect vital during svedana
- 10. Samyak Yoga, Ayoga and Atiyoga of Svedana
- 11. Complications of Svedana and their Management according to Ayurveda & Modern Medicine
- 12. Diet and management during and after Svedana
- 13. Parihār Vishaya
- 14. Svedana Kārmukata (Mode of action)
- 15. General Knowledge about current Sudation techniques like Sauna bath, Steam bath

IV. Vamana Karma

- 1. Etymology, definition and importance of Vamana Karma
- Utility of Vamana Karma in health and disease
- 3. Indications and Contraindications for Vamana
- 4. Knowledge of Koshta and Agni
- 5. General knowledge of Vamana and Vamanopaga drugs; properties, actions, preparations, preservation with special reference to Madanphala, Kutaj, Nimba, Yashti, Vacha
- 6. Purva Karma of Vamana: Deepan-Pāchana, Abhyantara Snehana and diet

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- 7. Management of one gap day-Abhyanga & Svedana, diet, special Kapha increasing diet
- 8. Preparation of the patient on Morning of Vamana day
- 9. Vamaka Yoga, Anupana, fixation of dose and method of administration
- 10. Administration of Vamanopaga Dravya such as milk, sugarcane juice, Yashtimadhu
- 11. Lakshana indicating Doshagati during the process
- 12. Management during Vamana Karma & observations
- 13. Symptoms of Samyak Yoga, Ayoga and Atiyoga of Vamana Karma
- 14. Post Vamana management
- 15. Types of Shuddhi-Hina, Madhya and Pravara
- 16. Peyadi Samsarjana Krama and Tarpanadi Kram with their specific indications
- 17. Complication of Vamana and their management with Ayurveda and modern drugs
- 18. Pariharya Vishaya
- 19. Vamana Karmukata (Mode of action).

V. Virechana Karma

- 1. Etymology, definition and importance of Virechana Karma
- 2. Utility of Virechana Karma in health and disease
- 3. Indications and Contraindications for Virechana
- 4. Knowledge of Koshta and Agni
- 5. Classification of Virechana Drugs, General properties of Virchana dravya
- General knowledge of single and compound Virechan drugs; properties, actions, preparations, preservation with special reference to Trivrutta, Aragvadha, Eranda, Katuki, Jaipal
- 7. Purva Karma of Virechana: Deepan- Pachana, Abhyantara Snehana and diet
- 8. Management of 3 gap days-Abhyanga, Svedana & diet
- 9. Management on Morning of Virechana day
- 10. Preparation of Virechana Kalpa, Anupana, dose and method of its administration
- 11. Method of Virechana Karma and management during Virechana Karma & observations
- 12. Symptoms of Samyak Yoga, Ayoga and Atiyoga of Virechana Karma
- 13. Post Virechana management
- 14. Types of Shuddhi-Hina, Madhya and Prayara and accordingly Samsarjana Krama
- 15. Complications of Virechana and their management with Ayurveda and modern drugs
- 16. Pariharya Vishaya
- 17. Virechana Kārmukatā (Mode of action)

VI. Basti Karma

- Etymology, definition and importance of Basti as Ardha-Chikitsa
- 2. Utility of Basti Karma in health and disease
- 3. Basti Yantra- Putaka & Netra, Detailed study of traditional Basti Yantra and their Doshas
 - Knowledge of alternative Basti Yantra-enema can, enema syringe, modified plastic/rubber bag for Putaka, modified plastic netra.
- 4. Classifications of Basti

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- 5. Karma, Kāla and Yoga Basti schedules along with their utility.
- Niruha Basti: Its etymology, synonyms, definition, classifications, subclassifications & indications and contraindications.
 - a. Dose fixation of Niruha Basti according to age
 - b. Contents and Method of preparation of Niruha Basti dravya
 - c. Diet
 - d. Administration of Niruha Basti
 - e. Pratyāgamana Kāla, Post Niruha Basti management
 - f. Samyak Yoga, Ayoga and Atiyoga of Niruha.
 - g. Complication of Niruha Basti and its management according to Ayurved and Modern Medicines
 - h. Pariharya Vishaya and kala
- 7. **Anuvasana Basti:** Its etymology, synonyms, definition, classifications, subclassifications & indications and contraindications.
 - a. Dose fixation of Anuvasan Basti according to age
 - b. Contents and Method of preparation of Anuvasan Basti dravya
 - c. Diet
 - d. Administration of Anuvasan Basti
 - e. Pratyāgamana Kāla, Post Anuvasan Basti management
 - f. Samyak Yoga, Ayoga and Atiyoga of Anuvasana.
 - g. Complication of Anuvasan and its management according to Ayurved and Modern Medicines
 - h. Pariharya Vishaya and kala
- 8. Basti Kārmukatā (Mode of action).
- Knowledge of following types of Basti: Madhutailika Basti, Erandmuladi Basti, Yāpana Basti, Pichchha Basti, Kshira Basti, Kshara Basti, Vaitarana Basti, Panchaprasutik Basti, Lekhan Basti, Krumighna Basti, Tiktashir Basti, Ardhamātrika Basti
- 10. **Uttara Basti**,: its definition, indications and contraindications, Detailed study of traditional Basti Yantra and their Doshas Knowledge of alternative Basti Yantra
 - a. Preparation of patient,
 - b. Preparation of Trolley for Uttarbasti,
 - c. drug preparation and Fixation of dose,
 - d. method of administration in male and females,
 - e. observations,
 - f. complications and their management

VII. Nasya

- 1. Etymology, definition, Significance of Nasya Karma.
- 2. Classifications and sub-classifications
- 3. Knowledge of general Dravya used for Nasya Karma, Shirovirechan Gana, Shirovirechanopag dravyas
- 4. Indications and contraindications of Nasya
- 5. Time of administration of Nasya
- 6. Dose fixation of different types of Nasya
- 7. Diet and regimen before and after Nasya Karma
- 8. Administration of Marsha, Pratimarsha, Avapeedaka, Dhoomapana and Dhuma Nasya
- 9. Symptoms of Samyak-yoga of Nasya,

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- 10. Complication of Nasya and their management
- 11. Parihār Vishaya
- 12. Nasya Karmukata (mode of action)

VIII. Raktamokshana

- 1. Definition, importance and Types of Raktamokshana
- 2. General Principles and rules of Raktamokshana
- 3. Classification of Raktamokshan
- 4. General Indication and Contra indication of Raktamokshan
- Jalaukavacharana: Knowledge of different types of Jalauka (Leech), Indications and contraindications of Jalaukavacharana, various types of Jalauka. Method of Application, Samyak Lakshan, Complication of Jalaukavcharana and their management with Ayurveda and Modern medicines.
- Pracchāna: Indications and contraindications of Pracchana. Method of Application, Samyak Lakshan, Complication of Pracchana and their management with Ayurveda and Modern medicines
- 7. **Sirāvedha:** Indications and contraindications of Siravedha. Method of Application, Samyak Lakshan, Complication of Siravedha and their management with Ayurveda and Modern medicines
- 8. Knowledge of emergency management of complications such as water & electrolyte imbalance, shock, bleeding per rectal, hemetemsis, epistaxis

IX.Physiotherapy

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- 1. Definition, Utility and Importance of Physiotherapy.
- 2. Basic Knowledge of Static exercise, Infrared, Short wave diathermy, Electromagnetic therapy, Wax bath therapy, Ultrasonic therapy.

PRACTICALS / CLINICAL TRAINING -

Total Duration of 3 Months posting

OPD (for 1-Month): observation of OPD patients, selection of the patients, observation of OPD base Panchakarma procedures

IPD (Panchkarma) and Panchakarma Unit – Observation of different procedures of Panchakarma, Assistance to the procedure under guidance of Panchakarma specialist Under clinical posting, each student has to study and write 15-long Cases and 10 short

cases in prescribed format Long case Paper- minimum 1 Vaman , 1 Virechan, 1Niruha & Anuvasan Basti, 1Nasya, 1 Raktamokshan

Short case paper –Minimum one each of Pinda sweda, Shirodhara, Abhyanga, Netra Tarpan, Bahya Basti, Nadi Sweda etc.

Distribution of Marks

- 1. Practical Record of 25 procedures
- 2. Long Procedure

05 Marks

10 Marks

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3. Long Procedure Viva05 Marks4. Short Procedure08 Marks5. Viva on Short Procedure02 Marks6. General Viva-voce20 Marks

Total 50 Marks

Reference Books

1. Charak Samhita with Commentary of Ayurveda Dipika by Chakrapanidatta & Jalpakalpataru by Gangadhara

2. Sushrut Samhita with the Sushruta Nibhandha Samgraha Commentary of Dalhana & Nyayachandrika Panjika of Gayadasa on Nidana Sthana

3. Ashtanga Hridaya with Sarvanga Sundara & Ayurveda Rasayana Commentaries

4. Ashtanga Sangraha with Shashilekha Commentaries

5. Ayurvediya Panchakarma Chikitsa Dr Mukundilal Dwivedi

6. Panchakarma Vigyan7. Illustrated PanchakarmaDr Haridas Shreedhar KastureDr.G Srinivasa Acharya

8. Clinical Panchkarma (English) Dr. P.Yadaiah
9. Prayogika Panchkarma (Hindi) Dr. P. Yadaiah
10. Vivida Vvadhivome Panchkarma (Hindi) Dr. P. Yadaiah

10. Vivida Vyadhiyome Panchkarma (Hindi) Dr. P. Yadaiah
11. The Panchkarma Treatment of Ayurveda with Kerala Specialtie Dr. T.L. Devaraj

12. Panchkarma Therapy Dr. R.H. Singh

13. Ayurveda-Principles and Panchakarma Practice Dr Mandip R. G. & Prof. Gurdip Singh

14. Principles and Practice of Basti

Dr. Vasudevan & Dr. L. Mahadevan

15. Panchakarma Sangraha Dr. Manoj Shamkuwar 16. Essential of Panchakarma Therapy Dr.Pulak Kanti Kaur 17. Principles and Practice of Panchakarma Vaidya Vasant Patil

19. Guyton's Physiology

18. Harrison's Principle of Internal Medicine

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4.3 SHALYA TANTRA

Theory Two Papers – 100 Marks Each Practical - Viva voce – 100 Marks

PAPER -I

100 Marks

Part - A

50 Marks

Definition of Shalya, Shalya Tantra and its importance. Introduction to Shalya Tantra: Historical background and progress made.

- Target Fluency in textual reading and comprehension.
- Preferable targets Know recent developments and controversies.

Description of Yantra, Shastra, Anushastra: Definition, number, types, uses, Dosha, Guna, Karma. Relevant modern instruments.

- Target Basic understanding of the concepts of Yantra and Shastra. Acquaintance with commonly used surgical instruments. Knowledge of textual descriptions.
- Preferable targets Knowledge about currently used surgical instruments, their specifications, procurement sources etc.

Nirjantukarana / Sterilization: Methods, types and its role in surgical practice.

- Target Basic surgical discipline of maintaining asepsis.
- Preferable targets- Knowledge of recently developed chemicals, instruments for sterilization.

Sangyaharan / Anaesthesia: Definition and Types.

- Local anaesthesia Drugs, Techniques, Indications, Contraindications, Complications and their Management.
- ii. Regional and General anaesthesia- Drugs, Techniques, Indications, Contraindications, Complications and their Management.
 - Target-Basic knowledge of the drugs and instruments of anaesthesia. To observe the process of induction, monitoring and recovery.
 - Preferable targets- Assisting and handling anaesthesia.

Trividha Karma - Purva Karma, Pradhana Karma and Paschat Karma.

- Target- Capability to identify conditions which can affect the outcome of surgery in pre, intra and post- operative period.
- Preferable targets- Experience of handling incidents.

Ashtavidha Shastra Karma - Surgical procedures.

- Targets- Appreciation and comprehension of concepts and indications of different procedures.
- Preferable targets –Hands on experience of surgical procedures.

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Yogya - Experimental Surgery.

- Target -Appreciation and comprehension of concepts of Yogya. Idea of patient's safety in experimental training.
- · Preferable targets- Hands on training on mannequins.

Marma: Nirukti, types, description and importance.

- Target –Clinical application of concepts of marma.
- Preferable targets- Study of relevance of marma in the light of current anatomical and surgical knowledge.

Kshara and Kshara Karma:

- Nirukti, Pradhanyata, Guna, Dosha, Karma, Prakara, Yogya, Ayogya, Procedure, Upadrava and Chikitsa.
- ii. Kshara nirmana vidhi, knowledge of Kshara Varti, Taila and Pichu.
- iii. Kshara Sutra Preparation, Indications, Contraindications and Method of application, Complications and their Management.
 - Target Capability to identify and practice the use of kshara, kshara sutra in common clinical conditions.
 - Preferable targets Broader knowledge of current trends and ongoing researches in kshara application.

Agnikarma: Mahatva, Upakarana, Vidhi, Akruti bheda, Yogya, Ayogya and Upadrava Chikitsa.

Contemporary techniques and tools of Agnikarma.

- Target Capability to appreciate the clinical indications and comprehend Agnikarma procedure.
- Preferable targets Hands on experience of use of cautery in surgical practice.

Raktamokshana: Mahatva, Prakara - Siravyadha, Pracchanna, Shringa, Alabu, Jaloukavacharana - Yogya, Ayogya, Procedure, Upadrava and Chikitsa.

- Target- Capability to appreciate and comprehend clinical indications of Jaloukavacharana and other Raktamokshana procedures.
- Preferable targets Uses of bloodletting in current therapy.

Bandha Vidhi - Prayojana, Dravya, Indications, Contraindications, Prakara, Upadrava, Pichu, Plota, Kavalika and Vikeshika.

- Target- Hands on experience of techniques of bandaging.
- Preferable targets New generation of bandaging and splintage tools.

Pranasta Shalya and Nirharana Upaya.

- Target Importance of concepts of Sushruta in the management of Shalya and concerns of patient safety. Identification and management of foreign bodies.
- Preferable targets Current concepts and diagnostic tools of dealing with foreign bodies.

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Fluid, Electrolyte, Acid Base Balance and Nutrition:

- i. Introduction of physiology of fluids and electrolytes.
- ii. Dehydration and over hydration.
- iii. Specific electrolyte loss, Acidosis, Alkalosis, Symptomatology and Management.
- iv. Electrolyte changes in specific diseases like pyloric stenosis, intestinal obstruction and anuria.
- v. Various replacement fluids in surgery, mode of administration and complications.
- vi. Nutrition.
 - Target Capability to identify and manage fluid and electrolyte imbalance. Ability to administer parenteral fluid.
 - Preferable targets Advanced techniques of fluid and electrolyte assessment and management.

Rakta Mahatwa, Raktasrava / Haemorrhage: Prakara and Lakshana.

- i. Raktastambhana Haemostasis.
- ii. Blood Transfusion –Blood groups, Compatibility, Indications, Contraindications and Complications with Management.
- iii. Component therapy.
 - Target-Knowledge of achieving haemostasis in haemorrhage.
 - Preferable targets Detailed knowledge of blood bank techniques.

Antibiotics, analgesics, anti-inflammatory and emergency drugs in surgical practice.

- Target Working knowledge of commonly used drugs.
- Preferable targets Advanced pharmacological study of the above drugs.

Diagnostic techniques – X-ray, Imaging techniques, Ultrasonography, CAT Scan, MRI, Biopsy / Cytological study.

- Target- Knowledge of proper indications for optimum investigational tools and their interpretation.
- Preferable targets Capability to work independently in the field of diagnostic techniques.

Part - B

50 Marks

Shat Kriyakala in surgical practice.

- Target- Clinical utility of the concepts.
- Preferable targets Applied aspects of Kriyakalas in the light of current concepts of pathogenesis.

Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-asadhyata, Upadrava and Chikitsa of the following disorders.

- i. Vranashotha Inflammation
- ii. Vidhradi Abscess
- iii. Pidika Boils
- iv. Nadi Vrana Sinus / Fistulae
- v. Vrana Granthi Keloid / Hypertrophic scar

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- vi. Marmagata Shock
- vii. Kotha Gangrene and Principles of Amputation.
- viii. Granthi Cyst
- ix. Arbuda Tumour
 - Target-Clinical application of the concepts.
 - Preferable targets Hands on experience of management of different conditions.

Vrana - Nirukti and Prakara

- Nija Vrana Nidana, Samprapti, Vrana Vasthu, Prakara, Lakshana, Vrana Pariksha Sthana, Vrana Akruti, Srava, Gandha, Vedana. Vrana Avastha- Dustavrana, Shuddha Vrana, Ruhyamana Vrana, Samyak Roodha Vrana, Vrana Sadhya-asadhyatha and Vrana Upadrava.
- ii. Vrana Chikitsa Pathya-apathya and Shashti Upakrama, Vranitagara and Rakshakarma.
- iii. Agantuja Vrana:
 - a. Sadyo Vrana Traumatic wounds Nidana, Prakara, Lakshana, Upadrava and Chikitsa.
 - b. Management of bites and stings.
- iv. Dagdha Vrana Burns and scalds.
- v. Ulcer Types and their management.
- vi. Wound healing stages and their management.
- vii. Pramehapidaka Diabetic carbuncle and wounds.
 - Target Clinical application of the concepts.
 - Preferable targets Hands on experience of management of different conditions.

Twak Vikara - Nidana, Samprapti, Lakshana and Chikitsa of Chippa - Paronychia, Kadara - Corn and Kshudra rogas.

- Target Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Manya Vikara – Nidana, Samprapti, Lakshana and Chikitsa of Galaganda – Goitre, Gandamala, Apachi –Lymphadenitis, Pashanagardhabha – diseases of parotid gland.

- Target-Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Sira Vikara - Venous disorders - Superficial and Deep venous thrombosis, Haemangioma, Varicose veins - Diagnosis and their Management.

- Target Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Dhamani Vikara - Arterial disorders - Nidana, Samprapti, Lakshana and Chikitsa of Aneurysm, Buerger's disease, Atherosclerosis, Raynaud's disease.

- Target Clinical application of the concepts.
- Preferable targets Hands on experience of management of different conditions.

Snayu Vikara - Diseases of tendons and ligaments – Tennis elbow, Ganglion and their Management.

Target - Clinical application of the concepts.

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Preferable targets - Hands on experience of management of different conditions.

Care of AIDS - HIV and hepatitis infected patients.

Target - Knowledge of safety precautions.

PAPER - II

100 Marks

Part - A

50 Marks

Bhagna – Skeletal injuries: Prakara including pathological fracture, Samanya Lakshana, Upadrava and Chikitsa.

Description of fracture of following bones with Clinical features, Diagnosis, Complications and Management – scapula, clavicle, humerus, radius, ulna, femur, patella, tibia and pelvis bones.

Sandimoksha - Dislocation: Dislocation of following joints with Clinical features, Diagnosis, Complications and Management of shoulder, elbow and hip.

· Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of bone: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Osteomyelitis, Cysts, Tumours and Tuberculosis.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Cranio-cerebral injuries: Mechanism, Pathology, Classification, Investigations, Complications and primary management.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Spine: Mechanism, Pathology, Classification, Investigations, Complications and primary management of Tuberculosis, Ankylosing Spondylitis and Disc prolapse.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of breast: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Sthana Vidradhi - Breast abscess and Sthana Arbuda - Breast tumours.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.
 Diseases of chest: Aetiopathogenesis, Classification, Clinical features, Diagnosis,
 Complications and Management of Chest injury, Pleural effusion, Pleurisy and Tumours.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of esophagus: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Oesophagitis, Varices, Ulcer and Tumours.

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Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Gulma Roga - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.

Shoola vyadhi - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of acute abdomen.

Udara Roga: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Jalodara - Ascites, Chidrodara - Perforation, Peritonitis and Badhagudodara-Intestinal obstruction.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of stomach and duodenum: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Pyloric Stenosis, Peptic Ulcer and Tumours.

• Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of small intestine: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Tuberculosis, Obstruction and Perforation.

Target - Clinical utility of the concepts.

• Preferable targets - Hands on experience of management of different conditions.

Diseases of large intestine - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Tuberculosis, Obstruction, Perforation, Tumours, Appendicitis, Crohn's disease and Ulcerative Colitis.

Target - Clinical utility of the concept.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Rectum and Anal Canal – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital disorders, Arshas - Haemorrhoids, Parikartika - Fissure-in-ano, Bhagandara - Fistula-in-ano, Guda Vidradi - Anorectal abscesses, Gudabhramsa - Rectal prolapse, Sanniruddaguda - Anal stricture, Incontinence, Rectal Polyp and Tumours.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Abdominal injuries and their management.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

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Diseases of Liver: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Yakrit Vidhradi - Abscess, Neoplasia, Portal hypertension and Yakritdalyodar –Hepatomegaly.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Gallbladder: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Cholecystitis, Cholelithiasis, Obstructive jaundice and Tumours.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Pancreas: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Pancreatitis, Cysts of Pancreas and Tumours.

Target - Clinical utility of the concepts.

• Preferable targets - Hands on experience of management of different conditions.

Diseases of Spleen – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Pleehodara – Splenomegaly and Splenic rupture.

Target - Clinical utility of the concepts.

• Preferable targets - Hands on experience of management of different conditions.

Diseases of Kidney and Ureters - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Polycystic kidney, Injuries, Perinephric abscess, Calculus and Neoplasms.

Target - Clinical utility of the concepts.

• Preferable targets - Hands on experience of management of different conditions.

Diseases of Urinary bladder – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Injuries, Ashmari - Vesical Calculus, Cystitis and Neoplasms.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Mutraghata and Mutrakrichra - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management. Retention of urine.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Prostate - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Prostatitis, Prostatic abscess, Benign Enlargement of Prostate and Carcinoma of Prostate.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

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Diseases of Urethra – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Urethritis, Stricture and Rupture.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Penis: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies, Niruddhaprakasha -Phimosis, Parivartika -Paraphimosis, Avapatika - Prepuceal ulcer, Arbuda- Tumours and Lingarsha - Penile Warts.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Diseases of Scrotum and Testis: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Epididymo-orchitis, Epididymal cyst, Scrotal filariasis, Shukrashmari - Seminal calculus, Torsion of testis, Ectopic testis, Undescended testis and Tumours.

Vriddhi Roga: Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Mutravriddhi – Hydrocele.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

Antra Vriddhi – Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Hernia - Inguinal, Femoral, Epigastric, Umbilical, Incisional and rare forms of Hernia.

Target - Clinical utility of the concepts.

Preferable targets - Hands on experience of management of different conditions.

PRACTICALS

Content of Practicals:

- 1. Identification, uses, demonstration of surgical instruments and methods of sterilization.
- 2. Training of case taking, bed side clinicals and case presentation.

3. Demonstration and Practical training in Anaesthesia.

- 4. Training to develop skills in following Parasurgical and other procedures
 - i. Kshara Karma
 - ii. Agnikarma
 - iii. Kshara Sutra
 - iv. Raktamokshana
 - v. Application of bandages and splints
 - vi. Catheterization
 - vii. Wound management procedures like Parisheka and Patradana

viii. Ryle's tube aspiration

- ix. Injections -Intramuscular / Intravenous / Subcutaneous / Intradermal
- x. Incision and drainage of abscess
- xi. Suturing of open wounds
- 5. Observation of following procedures

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- i. Circumcision
- ii. Hydrocele
- iii. Hernial repair
- Vasectomy iv.
- Haemorrhoidectomy ٧.
- Fistulectomy vi.
- Fissurectomy vii.
- Appendecectomy viii.
- Cholecystectomy ix.
- 6. Training of Surgical Emergencies and Management.

Clinical Training (Indoor and Outdoor)

- Shalya (Samanya)
- Shalya (Kshara and Anushastra Karma)
- Asthi and Sandhi Chikitsa (Orthopaedics and Trauma)
- Anaesthesia
- Radiology

Distribution of Marks

1) Daily records - 10 Marks 2) Instruments - 20 Marks 3) Short case - 10 Marks - 20 Marks 4) Long case 5) Viva – voce - 40 Marks Total - 100 Marks

09 Months

03 Months (atleast one month in OT)

03 Months (atleast one month in OT)

02 Months

15 days 15 days

Reference Books

- 1. Sushruta Samhita
- 2. Ashtanga Sangraha
- 3. Ashtanga Hridaya
- 4. Charaka Samhita
- 5. The Surgical instruments of the Hindus
- 6. Shalya Tantra Samuchchaya
- 7. Shalya Vigyan (Part 1-2)
- 8. Shalya Samanvaya (Part 1-2)
- 9. Shalya Pradeepika
- 10. Soushruti
- 11. Clinical Shalya Vigyan
- 12. Bhagna Chikitsa
- 13. Kshara sutra management in anorectal ailments Dr. S.K. Sharma, Dr. K.R.Sharma
- 14. Anorectal diseases in Ayurveda
- 15. Adhunika Shalya Chikitsa Siddanta
- 16. Agnikarma Technology Innovation
- 17. Shalya Tantra Ke Siddhant

- Girindranath Mukhopadhyaya
- Pandit Ramadesh Sharma
- Dr. Surendra Kumar Sharma
 - Vd. Anantaram Sharma
 - Dr. Mukund Swaroop Verma
 - Dr. Ram Nath Dwivedi
 - Dr. Akhilanand Sharma
 - Dr. Prabhakar Janardhan
 - Deshpande
 - and Dr. Kulwant Singh.
 - Dr. Sijoria and Dr. Praveen Kumar Chowdary.
 - Dr. Katil Narshingham Udupa
 - Dr. P.D. Gupta
 - Dr. K.K.Takral
- 18. Recent advances in the management of Arshas / Haemorrhoids Dr. P. Hemantha

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19. Arsha Evum Bhagander Mein sutra Avacharan

20. Kshara Sutra

21. Surgical ethics of Ayurveda

22. Bailey and Love's Short Practice of Surgery

23. Clinical methods in surgery

24. Textbook of Operative Surgery

25. Shalya Vigyan (Sachitra)

26. Anushastra Karma

27. Concept of Vrana is Ayurveda

28. Significance for Poorva Karma in Surgical Patient - Dr. Lakshman Singh

29. Sangyaharan Prakash

30. A concise Text Book of Surgery

31. A manual on Clinical Surgery

32. A System of Surgical Diagnosis

33. A Practical Guide to Operative Surgery

34. Drugs and Equipment for Anaesthesia

35. Manual of Surgical Instruments

36. Ward Procedures

37. Recent trends in the management of Arshas / Haemorrhoids - Dr. P. Hemantha

38. Primary Anaesthesia

39. Synopsis of Anaesthesia

40. Clinical Anatomy/ Surgical Anatomy

41. Surgical Instruments of the Hindus

42. Outline of Orthopedics

43. Outline of Fracture

44. Recent trends in the management of Bhagandara / Fistula-in-ano - Dr. P. Hemantha

45. Principles and Practice of Agnikarma

46. Manipal Manual of Surgery

Kumar

- Vd. Kanak Prasad Vyas

- Dr. S.N.Pathak

- Dr. D.N. Pande

- Norman, S. Williams, Charles. V.

Mann and R.C.G. Russell

- S. Das - S. Das

- Anantram Sharma - Dr. D.N. Pande

- Dr. Lakshman Singh

- Dr. D.N. Pande

- S. Das

- S. Das

- T.N. Patel

- S. Das

- Arun kumar

- M.M. Kapur

- Patel Mansukh. B

Kumar

- Maurice King

- Lee

- John E.Skandalakis

- Girindharnath Mukopadyay

- John Crawford Adams and David

Hamblen, L

- John Crawford Adams

Kumar

- Dr. Anand Kumar and

Dr. Kanchan Shekokar

- Dr. Rajgopal Shenoy

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4.4 SHALAKYA TANTRA

Theory Two Papers - 100 Marks Each Practical/Viva voce - 100 Marks

NETRA ROGA VIGYAN

Paper I

100

Marks

I. Introduction

a) Shalakyatantra nirukti, Parichayam, Ithihasam

- Netra rachana shariram (Mandala, Patala, Sandhi, Drushti Vichara) and Netra Kriya Sharira alongwith modern anatomy of Eye.
- c) Eye examination and knowledge of basic instruments/equipments required for examination of Eye.
- d) Netrarognanam Samanya Hetu (Nija and agantuja), Purvarupa, Samprapti, Rupa and Chikitsa.
- e) Classification of Netraroga and its importance.

II. Netra Samanya and Vishishta Chikitsa - Kriya Kalpa

- a) Netra and Chakshu swasthya hitkara Dinacharya, Ritucharya, Aahara evam Vihara.
- b) Kriya-kalpa-Seka, Aschyotana, Pindi, Vidalaka, Tarpana, Putapaka, Anjana and importance of Panchkarma in Netra Chikitsa.
- c) Basic fundamentals of Netra Shastra Chikitsa e.g. Purva Pradhana Paschat karma, Pranashtashalya, Vranitopasana, shotha, Ama-Pachyaman-Pakva Vrana Vranbandhana. Methods and concepts of sterlization, asepsis and antisepsis as per ancient and modern point of view.
- d) Basic applied knowledge of Ashtavidha shastrakarma, agni, kshara, raktamokshana in
- e) Essential diagnostic and therapeutic modern pharmacological agents required in Netra Chikitsa

III. Sandhigata Roga(Diseases of junctional areas of eye)

- a) Number of sandhigata rogas, detailed etiology, pathology, clinical features and management of Pooyalasa and Srava Rogas.
- b) Brief Study of krimi granthi, Parvani and Alaji Rogas.
- c) Study of Acute and Chronic Dacryocystitis, Epiphora, Blepharitis including their aetiology, pathology, signs & symptoms, differential diagnosis and medical & surgical management.

IV. Vartmagata Roga(Diseases of Lids)

- a) Number of vartmagata rogas, and detailed knowledge of etiology, pathology, clinical features and management of Anjananamika, Utsangini, Lagana, Vatahata vartma, Pakshma kopa, Sikta vartma, Pothaki, Klinna vartma, Krichhronmeelana and Kukunaka diseases of Vartma.
- b) Brief Knowledge of Vartmarbuda, Utklishta vartma, Nimesh, Pakshmashata, Vartmarsha
- c) Knowledge of Hordeolum, Ptosis, Trachoma, Trichiasis, Entropion, Ectropion including their Etiology, signs and symptoms differential diagnosis and medical & surgical management.

V. Shuklagata Roga(Diseases of sclera and conjunctiva)

a) Number of Shuklagata rogas, detailed knowledge of etiology, pathology, clinical features

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and management of Arma, Arjuna and Shuktika

b) Brief Knowledge of Sira pidika, Sira jala, Pishtaka, Balasgrathita.

c) Study of Pterygium, Scleritis, Episcleritis, Sub-Conjunctival Hemorrhage including their Etiology, signs and symptoms, differential diagnosis and medical & surgical management.

VI. Krishnagata Roga (Diseases of cornea and uvea)

a) Number of krishnagata rogas, detailed knowledge of Etiology, Pathology, Clinical features, differential diagnosis, complications and Management of Savrana /kshata Shukla (Shukra), Avrana shukra (Shukla)

b) Brief knowledge of Sira shukla, Akshipakatyaya and Ajakajata.

of Corneal ulcer, Corneal Opacity, Uveitis, Acute Iridocyclitis, Knowledge Staphyloma, their aetiology, pathology, symptoms, differential diagnosis, complications and management.

VII. Sarvagata Roga (Diseases effecting all parts of eye)

a) Number of Sarvagata rogas, detailed knowledge of etiology, pathology, clinical features, complications, differential diagnosis and Management of Abhishyanda, Adhimantha, Hatadhimantha and Shushkakshipaka.

Vata paryaya, Anyato vata, Sashopha b) Brief Knowledge of Amloshit,

Ashophakshipaka- Pilla roga, Sirotpata and Siraharsha.

c) Knowledge of Conjunctivitis, Glaucoma, Dry Eye Syndrome including their etiology, pathology, clinical features, differential diagnosis, complications management.

VIII. Drishtigata Roga (vision disorders)

a) Number of Drishtigata rogas detailed knowledge of - etiology, pathology, clinical features, differential diagnosis and management of Timira, Kacha and Linga nasha.

b) Brief Knowledge of Abhighataja lingnasha, sanimittaja & Annimittaja Lingnasha Doshandhya/Kaphavidagdha drishti, Naktandhya, Ushna vidagdha drishti, Pittavidagdha drishti, Dhumadarshi, Hriswajadya, Gambhirika, Nakulandhya, Nayanabhighata.

c) Knowledge of Refractive errors, Cataract including their etiology, pathology, clinical

features, differential diagnosis, complications and their management.

d) Study of Eale's disease, Hypertensive & Diabetic Retinopathies, Age related Macular degeneration, Strabismus, Retinitis pigmentosa, Night blindness, Amblyopia, Central serous retinopathy, Optic Neuritis and Optic atrophy

IX. Miscellaneous Diseases

a) Xerophthalmia and other malnutritional eye disorders.

b) Knowledge of ocular trauma and their management.

c) Introduction to Eye bank, Eye donation, Corneal Transplantation

d) Preventive Ophthalmology and Community Ophthalmology

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SHIRA - KARNA- NASA- MUKHA ROGAS

100 Marks PAPER II

I Samanya Chikitsa

a) Study of therapeutic procedures like Sveda, Kavala, Gandusa, Dhuma, Murdhni Taila, Nasya, Pratisarana, Karna Purana, karna prakshalana, nasa prakshalana Mukha Lepa.

b) Ashtavidha shastrakarma and anushastrakarma used in the treatment of Shira, Karna, Nasa evam Mukha Rogas.

II Shiro Roga

a) Importance and Superiority of Shira.

b) Number, general etiology, pathology and cardinal features of shiro rogas and kapalgata rogas along with their common line of management/treatment.

c) Detailed study of Vataja, Pittaja, Kaphaja shirashoola, Suryavarta, Ardhavabhedaka, Khalitya, Palitya.

d) Brief Knowledge of Raktaja shiraha shoola, Krimija shiraha shoola , Kshayaja shiraha shoola & Sannipataja shiraha shoola, Ananta vata, Indralupta, Darunaka.

e) Detailed study of Headache, Migraine its differential diagnosis and treatment.

III Karna Roga

a) Detailed study of Rachana and Kriyasharir of Karna (Ear) & Shravanendriya as per Ayurvedic and modern view, Examination of Ear along with instruments/equipments required in Ear examination.

b) Detailed study of etiology, pathology, classification, clinical features and management of diseases of Karna - karna shool, karna nada& shweda, Badhirya, karnastrava, karna pratinaha, pootikarna, karnagoothaka, karnavidradhi.

c) Brief Knowledge of karna kandu, karnapaka, karnarsha, karnarbuda,krimikaran &karnapali rogas , Karna sandhana(Auroplasty), fundamentals, method and Vaikritpaham

d) Detailed study of Otalgia, ASOM, CSOM, Deafness, wax including their etiology, pathology, medical & surgical clinical features, differential diagnosis, complications and management

e) Brief Knowledge of Otomycosis, Otosclerosis, Tinnitus, Vertigo, Foreign body in ear and Noise pollution.

IV Nasa Roga

a) Detailed study of Rachana and Kriyasharir of Nasa (Nose and paranasal sinuses)& Ghranendriya as per Ayurvedic and modern view, Examination of Nose. along with instruments/equipments required in Nose examination.

b) Detailed study of Pratishyaya, Dushta pratishyaya, Nasanaha, Kshavathu, Nasagata raktapitta & Nasarsha.

c) Brief Knowledge of Putinasa, Bhranshathu, Peenasa, Apeenasa, Nasarbuda, Nasashotha, Dipta, Nasa Sandhana.

d) Detailed study of Rhinitis & Sinusitis Epistaxis, Nasal Polyp, DNS, Foreign body including their Etiology, pathology, clinical features differential diagnosis and medical & surgical management.

e) Brief Knowledge of Nasal trauma, Tumours of nose and Para nasal sinuses.

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V Mukha Roga (Diseases of Oral Cavity)

- a) Detailed study of Rachana and Kriyasharir of Mukha Rogaadhisthana- oshtha, dantamoola, danta, jivha, talu, gal, sarvasara (Oral cavity) as per Ayurvedic and modern view along with their Basic examination including instruments/equipments required for the examination
- b) Mukha and Danta Swasthya as per ancient and modern concepts including prevention of malignancy of oral cavity.
- c) Number and general aetiology, pathology, cardinal features of Mukha rogas along with their common line of management/treatment.

Oshtha Roga (Diseases of Lips)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Oshtha prakopa, khandoshtha
- b) Brief Knowledge of Gandalaji, Jalarbuda, Kshataja Oshthaprakopa

c) Knowledge of cleft lip.

Dant Mula Gata Roga (Diseases of Periodontia)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of - Shitada, Dantaveshta, Upakush, Danta Nadi, Danta Vidradhi, Adhimansa
- b) Brief Knowledge of dantapupputaka, Saushira, Mahasaushira, Danta Vaidarbha, Paridara, Vardhana.
- c) Detailed study of Etiology, pathology, classification, clinical features and management of Gingivitis, Apical abscess, Periodontitis (Pyorrhoea).

Danta Roga (Dental Diseases)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Daalan, Krimidanta, Dantaharsha, Danta sharkara, Hanumoksha
- b) Brief Knowledge of karala, Bhanjanak , Kapalika, Shyava Danta, Danta bheda,
- c) Danta chaal, Adhidanta, Danta Utpatana including Jalandhar bandha method and Danta Purna.
- d) Knowledge of Dental Caries, Dental Tartar & Tooth extraction.

Jihwa Gata Roga (Diseases of Tongue)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of jivha kantaka (vataja, pittaja and kaphaja)
- b) Brief Knowledge of Upajihva, Adhijihva, Alasa.
- Knowledge of Glossitis, Tongue Tie, Ranula, Benign and Malignant Tumors of tongue.

Talu Roga (Diseases of Palate)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Gala shundika, Talushosha, Talupaka
- Brief Knowledge of Talupupputa, Adhrusha, Kacchapa, Talvarbuda, Mamsasanghata.
- c) Knowledge of Cleft palate, palatitis, uvulitis and tumours of the palate.

Kantha and Gala gata Roga (Diseases of Pharynx & Larynx)

 a) Detailed study of Etiology, pathology, classification, clinical features and management of - Tundikeri, Kantha shaluka, Gilayu, Galaganda,

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Swrabhedha, Galavidradhi.

b) Brief Knowledge of Rohini, Galashotha, Kantharbuda, Kanthavidradhi, Galarbuda Galaugham, Vrindam, Ekavrindam, Valaya, balasa, Shataghni, Swaraghna.

c) Detailed study of Etiology, pathology, classification, clinical features and

management of - Pharyngitis, Laryngitis, Tonsillitis & Adenoiditis

d) Brief Knowledge of foreign body in the throat, Carcinoma of Larynx & Pharynx, Dysphagia Diphtheria & diseases of salivary glands.

Sarvasara Mukha Roga (Generalised mucosal affections of the oral cavity)

- a) Detailed study of Etiology, pathology, classification, clinical features and management of Sarvasar mukhapaka
- b) Brief Knowledge of urdhvaguda, putivaktrata, mukharbuda

c) Detailed Knowlege of Stomatitis.

VI Miscellaneous Diseases

National Programme for Prevention and Control of Deafness.

PRACTICAL

Content of Practical

Identification, Uses, Demonstration of surgical/non-surgical equipment/ instruments, materials used in shalakya chikitsa. Method of sterilization. Training of case taking, bedside clinics and case presentation.

Training in para- surgical procedures-

- 1) Kshara karma
- 2) Agnikarma
- 3) Raktamokshana

Clinical Training

- 4) Training of ward procedures. Application of bandages, wound management
- 5) Training of minor procedures (ashtavidha)
- 6) Observation of surgical procedures in Shalakya

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	kriya kalpa)	
Distribution of marks		
1) Long Case	30 Marks	
2) Short Case	20 Marks	
3) Identification of instruments	10Marks	
quipments, medicines, etc		
4) Viva – voce	30 Marks	
5) Daily Record (Case record)	10 Marks	
Total	100 Marks	

Reference Books:-

Shalakya Tantra
 Shalakya Vigyan
 Dr. Rama Nath Dwivedi
 Ravindra Chandra Choudhary

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Pulars

04 Months (OPD, IPD OT and

3. Abhinava Netra Chikitsa

4. Netra Chikitsa Vigyan

5. Netra Roga Chikitsa

6. Netra Roga Vigyan

7. Parson's Diseases of Eye

8. Diseases of ENT Log and Turner

9. Shalakya Tantra

10. Atext book of ophthalmology in Ayurveda

11. Shalakya Kriya Kalpa Vigyan

Useful portions of Charak, Sushrut, Vagbhata

Acharya Vishva Nath Dwivedi

Dr. Ravindra Chandra Choudhary

Dr. Munje

Dr. Hans Raj

Shiv Nath Khanna

Dr. P.K.Shantha kumara

Prof. K. S. Dhiman

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4.5 Research methodology and Medical statistics

Total Marks 50 (Part A-30 and Part B- 20)

PART - A -Research Methodology

- 1. Brief historical background of research in Ayurved and contemporary medical science Evidences of researches in ayurvedic classics
- 2. Etymology, definitions and synonyms (Anveshana, Gaveshana, Prayeshana, Anusandhan and Shodha) of the word Research
- 3. Research in Ayurved Scope, need, importance, utility
- 4. Types of Research (familiarization of the terms)
 - a) Pure and Applied
 - b) Qualitative , Quantitative and Mixed Observational and interventional.
- 5. Research process (Importance of each steps in brief)
 - a. Selection of the topic
 - b. Review of the literature
 - c. Formulation of Hypothesis
 - d. Aims and Objectives
 - e. Materials and methods
 - f. Observations and results
 - g. Methods of communication of Research
- 6. Research tools Role of the pramanas as research tools
- 7. The concept and importance of ethics in research
- 8. Concept of Evidenvce Based Medicine and Scientific Writing
- 9. Importance of IT in data mining and important research data portalsconcerned with Ayurved and contemporary medical science (DHARA , PubMed, Ayush Research Portal, Bioinformatics Center, Research Management Informatic System etc.)

Part - B Medical-Statistics

- 1. Definition, scope and importance of the Medical statistics
- 2. Common statistical terms and notations
 - a. Population
 - b. Sample
 - c. Data
 - d. Variable
 - e. Normal distribution
- 3. Collection and Presentation of data
 - a. Tabular
 - b. Graphical
 - c. Diagrammatical
- 4. Measures of location
 - a. Average
 - b. Percentile

Measures of Central Tendency

- a. Arithmetic mean
- b. Median

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- c. Mode
- 5. Variability and its measurement
 - a. Range
 - b. Standard deviation
 - c. Standard error
- 6. Introduction to probability and test of significance
- 7. Parametric and non parametric tests
- 8. Introduction to commonly used statistical soft-wares.

Reference books for Research methodology:

- 1. Dawson, Catherine, 2002, Practical Research Methods, New Delhi, UBS Publishers' Distributors
- 2. Kothari, C.R.,1985, Research Methodology-Methods and Techniques, New Delhi, Wiley Eastern Limited.
- 3. Kumar, Ranjit, 2005, Research Methodology-A Step-by-Step Guide for Beginners, (2nd.ed), Singapore, Pearson Education
- 4. Students guide to research methodology Undergraduates. Alexandria Medical Students Association.
- 5. Health research methodology. A guide for training in research methods. 2nd edition. Manila, World Health Organization Regional Office for the Western Pacific, 2001.

Reference Books for statistics:

- 1. Health research methodology. A guide for training in research methods. 2nd edition. Manila, World Health Organization Regional Office for the Western Pacific, 2001.
- 2. Statistical methods in medical research. P.Armitage (Ed) Oxoford Blackwell
- 3. Statistical methods . Snedecor GW and Cochran, WG
- 4. Altman, D. G. (1991). Practical statistics for medical research. London: ChapmanPrinciples of Medical Statistics by A. Bradford Hill
- 5. Interpretation and Uses of Medical Statistics by Leslie E Daly, Geoffrey J Bourke, James MC Gilvray.
- 6. Research in Ayurveda-M S Baghel
- 7. research methodlogy in ayurveda-V.J.Thakar, Gujarat Ayurved University
- 8. Ayurveda anusandhan paddhati-P.V.Sharma
- 9.Research methodology methods and statistical techniques- Santosh Gupta Greenhouse SW.
- 10.The growth and future of biostatistics: (A view from the 1980s). Statistics in Medicine 2003; 22:3323–3335.
- 11.Knapp GR & Miller MC. Clinical epidemiology and Biostatistics, NMS series Antonisamy B, Christopher S & Samuel PP. Biostatistics: Principles and practice
- 12.Sundara Rao PSS & Richard J. An introduction to Biostatistics, PHI
- 13. Senn S (1997). Statistical Issues in Drug Development. Chichester: John Wiley & Sons.
- 14. Methods in Bio-statistics for Medical Students- BK Mahajan
- 15. Vaidyakeeya Sankhiki Shastra- Dr.S.S. Savrikar

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