

## **Subject Specific Paper-Physiotherapy**

### **Theory**

Time-3 Hrs

External Assessment-80

Internal Assessment-20

Total Marks-100

Pass Marks-50

### **SECTION A: RESEARCH TERMINOLOGIES WITH SPECIAL REFERENCE TO PHYSIOTHERAPY**

Epidemiology, Absolute rate of incidence, Relative rate of incidence, Prevalence, Inclusion criteria, Exclusion criteria, Study variables, Questionnaire, Self-report, Interview

### **SECTION B: EQUIPMENT USED FOR DATA COLLECTION IN PHYSIOTHERAPY**

Spirometer, Dynamometer, Nerve conduction Velocity, Electromyography, Complete electrotherapy unit, Sensory evaluation kit, Audio-visual reaction time, Biofeedback, Bone densitometer, Podiascan, Jumping power board, Skinfold caliper, Sliding caliper

### **SECTION C: ASSESSMENT TOOLS USED FOR RESEARCH IN PHYSIOTHERAPY**

ADL & IADL, Functional outcome scales, Balance scales, Gait assessment scales, Disability scales, Cognitive assessment scales, Radiographic classification, Nutritional assessment scales, Spasticity assessment scales, Geriatric assessment tools, Disease specific assessment scales

### **SECTION D: ASSESSMENT TESTS USED FOR DATA COLLECTION IN PHYSIOTHERAPY**

Manual muscle testing, Aerobic and anaerobic capacity, Sit and reach, Sports specific Skills test, Tests used for cardiopulmonary, musculoskeletal and neurological impairments.

### **Books Recommended:**

- Research for physiotherapists project, design and analysis – Hicks CM, Churchill Livingstone
- Research methodology - Kothari CR
- Essentials of research methodology and dissertation writing - Yelikar Jaypee Brothers
- Clinical neurophysiology – U K Misra and J Kalita, Elsevier
- Electrotherapy Explained: Principles & Practice - Low & Reed, Butterworth Heinemann
- Muscle testing and function YUNs - Kendall - Williams & Wilkins
- Daniels and Worthingham's - Muscle testing - Hislop & Montgomery - W.B. Saunders
- Textbook of Orthopaedics and Rheumatology for Physiotherapists, Patricia A Downie
- Orthopedic Physical Assessment – David Magee

- Principles of geriatric physiotherapy –Multani and Verma, Jaypee Brothers publication
- Cash Textbook of Neurology for Physiotherapists
- Physical Rehabilitation - Susan
- Physiotherapy in Pediatrics - Roberta Sheppard
- Neurological Rehabilitation - Carr and Shepard
- Neurological Rehabilitation - Darcy Umphred
- Physiotherapy in Cardio Respiratory Disease - Jenifor Pryou and Ammani Prasad
- Physical Rehabilitation – Assessment and Treatment. Susan Sullivan
- Cardio Pulmonary Rehabilitation – Scott Irwin
- Essentials of Cardio Pulmonary Physical Therapy - Ellen Hilleglass; Steven Sadowsky : W. B. Saunders company
- Physical Rehabilitation Assessment and Treatment, Susan Sullivan, Jaypee Brother Publications
- Cash Textbook of Cardio Respiratory Disease for Physiotherapistis, Elsevier : Jaypee Brothers Publications