Syllabus

PhD (Physiotherapy) Entrance Examination for the academic session

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S No	Syllabus	Paper 1	Paper 2
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DETAILED SYLLABUS

PHYSIOTHERAPY SUBJECTS (CARDIORESPIRATORY, MUSCULOSKELETAL, NEUROLOGICAL, REHABILITATION, SPORTS, WOMEN'SHEALTH

- Assessment and evaluation of cardiopulmonary system vitals, stress testing, ABG analysis, ECG monitoring, Pulmonary Function Tests, Lung volumes and capacities
- 2. Principles of ICU management of critically Ill patients including NICU
- 3. Physiotherapy management of obstructive and restrictive lung disease
- 4. Cardiac and Pulmonary Rehabilitation Principles and stages
- 5. Physiotherapy management in post-surgical cardiac and respiratory conditions
- 6. Physiotherapy management of traumatic, degenerative, infectious, neuromuscular conditions of upper and lower limbs, spine, neck and back.
- 7. Soft tissue injuries and its Physiotherapy management
- 8. Deformities and its Physiotherapy management
- 9. Physiotherapy management for amputation
- 10. Joint replacement surgeries and Physiotherapy management
- 11. Tendon transfer and Physiotherapy management
- 12. Manual therapy approaches in common musculoskeletal conditions
- 13. Ergonomic principles and its application in various musculoskeletal conditions
- 14. Evidence based Physiotherapy approaches in common musculoskeletal conditions
- 15. Physiotherapy Assessment and Evaluation procedures in neurological conditions
- 16. Physiotherapy management of cerebral disorders Stroke, Cerebral palsy, head injury,

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Parkinson's disease, Hydrocephalus

- 17. Physiotherapy management of spinal disorders Spinal cord injuries, spina bifida
- 18. Physiotherapy management of peripheral nerve lesions and neuropathies
- 19. Pre participation evaluation of athletes
- 20. Components of fitness Health related, Skill related
- 21. Biomechanical evaluation of sports
- 22. Delayed Onset Muscle Soreness Pathophysiology and management options
- 23. Female Athletic Triad
- 24. Physiotherapy management in prevention of Sports injuries
- 25. Therapeutic modalities in sports injury management.
- 26. Physiotherapy management of acute and overuse sports injuries upper limb, lower limb,
- 27. Taping and wrapping techniques of upper limb, lower limb and spine
- 28. Training guidelines for different population
- 29. Recent advances in assistive technology for mobility and stability Prescription, training of upper limb, lower limb, cervical and trunk orthosis and prosthesis
- 30. International Classification of Functioning. International Classification of Impairment, Disability and Handicap
- 31. Institution based and community based rehabilitation
- 32. Occupational hazards and measures to prevent it
- 33. Occupational task analysis and role of Physiotherapists
- 34. Physiotherapy management related to child bearing year Antenatal and postnatal care programs
- 35. Physiotherapy management in Obstetric and Gynecological conditions
- 36. Physiotherapy management of urinary dysfunction
- 37. Physiotherapy management in geriatric care
- 38. Wheelchair types, assessment for prescription and role of Physiotherapist.

RESEARCH METHODOLOGY & BIOSTATISTICS

- 1. Types of research Quantitative and Qualitative
- 2. Steps in research process
- 3. Types of variables dependent and independent
- 4. Types of hypothesis Null, Alternate, One tailed, two tailed
- 5. Characteristics of a good research question. PICO format
- 6. Review of literature Sources and importance, how to read an article critical appraisal
- 7. Importance of inclusion and exclusion criteria
- 8. Types of study design Experimental and Non experimental, different sub types of study designs
- 9. Reliability and validity
- 10. Sampling Frame, size and different types
- 11. Different methods of data collection
- 12. Testing the hypothesis statistical tests to be used in different research designs
- 13. Ethical practice in human research common errors and methods to overcome them

- 14. Measures of central tendency, measures of dispersion, normal distribution curve
- 15. Commonly used statistical tests in health care research Parametric and non-parametric
- 16. Interpretation of statistical results and its clinical importance
- 17. Minimal Detectable Change (MDC) and Minimal Clinically Important Difference (MCID)
- 18. Reporting research and writing paper for publication

19. Getting Research Into Practice

7

- Janobara