

DEPARTMENT OF PHYSIOTHERAPY

PUNJABI UNIVERSITY PATIALA

(Established under Punjab Act No 35 of 1961)

Syllabus for Entrance Test for Ph.D (2022-23)

Section-A

(Research Methodology)

1. Research And Biostatistics

Scope, characteristics and types of research, brief introduction to biostatistics organization of data, parametric and nonparametric tests, correlation.

Section-B

(Subjective)

1. Basic Medical Sciences

Organization and regulation of motor system, control system of body (Motor and sensory) structure and function of cardio vascular, respiratory and endocrinal system

2. Applied Basic Sciences

Basics of radiology with respect to imaging of musculoskeletal system, pathology and pharmacological management of the disorders of Musculoskeletal, Nervous, Cardiovascular and Respiratory systems

3. Biomechanics

Principle, methods and role of Biomechanics and kinesiology in Physiotherapy, biomechanics of upper limb, lower limb, spine, gait analysis

4. Exercise Physiology

Bioenergetics of exercise, nutrition and metabolism , response of exercise to cardio respiratory system, hormonal response to exercise , acid base balance, exercise in metabolic disorders

5. Therapeutics

Principles and methods and advances in exercise therapy, Principles and methods and advances in electrotherapy, Principles, methods and advances in manual therapy, Principles and methods of orthotics and prosthetics

6. Evaluation

Principles and methods of examination of Musculoskeletal, Nervous ,Cardiovascular and Respiratory systems, assessment and documentation, disability evaluation, advanced evaluations tools

7. Treatment Methods

Physiotherapy management of disorders of Musculoskeletal, Nervous, Cardiovascular and Respiratory systems