

ESTIMATED* TOPIC WISE WEIGHTAGE FOR THE MPT QUESTION PAPER

Applicable to Revised Ordinance of Master of Physiotherapy Course

[2021-22 admitted batch onwards]

The following shows the weightage given to each topic in terms of the number of questions per topic of Paper I & Paper II, III and IV for all Specialties for the final theory examination.

This improves the content validity by distributing the assessment of learners under each sections of the new Specialty syllabus.

* Minor Variations in distribution of number of questions can be present in the final Question Paper

PAPER I
FUNDAMENTALS IN PHYSIOTHERAPY PRACTICE, PEDAGOGY AND RESEARCH

TOPICS	NO OF QUESTIONS
1) Principles of Physiotherapy Practice	1
2) Core Professional Values in Physiotherapy including Professional And Research Ethics	1
3) Research Methodology and Biostatistics	3
4) Exercise Physiology	2
5) Electrophysiology	2
6) Pedagogy in Physiotherapy Education	
7) Management, Entrepreneurship and Leadership in PhysiotherapyPractice	1

MUSCULO-SKELETAL SCIENCES [MPT-MSK]

TOPICS	NO OF QUESTIONS
PAPER II	
FUNDAMENTAL PRINCIPLES OF MUSCULOSKELETAL PHYSIOTHERAPY	
1) Basic Concepts of Musculoskeletal System	1
2) Basic Concepts of Anthropometry	1
3) Basic Concepts of Biomechanics	1
4) Biomechanics of movement across Life Span	1
5) Physiological Basis of Human Movement	1
6) Mechanics and Pathomechanics of joints	2
7) Posture	1
8) Gait and function	1
9) Pain	1
10) Electro Physics	1
PAPER III	
PHYSICAL AND FUNCTIONAL DIAGNOSIS IN MUSCULOSKELETAL DISORDERS	
1) PART 1	1
2) PART 2	2
3) PART 3	1
4) PART 4	2
5) PART 5	2
6) PART 6	1
7) PART 7	1
PAPER IV	
PHYSIOTHERAPY INTERVENTIONS IN MUSCULOSKELETAL DISORDERS	
1) Interventions for Physiologic Impairments during Rehabilitation	1
2) Management of Pain	1
3) Methods of Musculoskeletal Rehabilitation	2
4) Advanced techniques in Musculoskeletal Rehabilitation	2
5) Electro modalities in Musculoskeletal Rehabilitation	1
6) Ergonomics	1
7) Trauma Rehabilitation	2

SPORTS SCIENCES [MPT –SPORTS]

TOPICS	NO OF QUESTIONS
PAPER II	
BASIC MEDICAL SCIENCES FOR SPORTS PHYSIOTHERAPY	
1) Applied and Functional Anatomy	1
2) Applied Physiology	1
3) Applied biomechanics and Patho-mechanics of bones, joints & soft tissues.	1
4) Principles of Biomechanics and kinesiology for sports. 5) Principles of motor learning and control. 6) Pain neuroscience education	1
7) Sports psychology 8) Sports Nutrition	1
9) Sports pharmacology 10) Anti-doping 11) Role of a Sports physiotherapist as an administrator and team collaborator	1
12) Principles of Training and exercise conditioning	2
13) Thermoregulation 14) Altitude, body fluids 15) Body composition	1
16) Medical conditions 17) Ergogenic aids	1
PAPER III	
SPORTS ASSESSMENT, INJURY EVALUATION (SPORTS TRAUMATOLOGY) AND EXERCISE PHYSIOLOGY	
1) Assessment & Evaluation 2) Clinical Bio-psychosocial approach to sports injury evaluation.	1
3) Evaluation of Physical Fitness: Health and skill related fitness tests.	1
4) Functional assessment.	1
5) Musculoskeletal screening	1
6) Investigation methods/Diagnostic Imaging used	1
7) On and Off-field assessment, pre-participation evaluation.	1
8) Sports specific assessment of lower limb complex 9) Sports specific assessment of upper limb complex	1
10) Sports specific assessment of spinal column 11) Sports specific assessment of Gait deviations	1
12) Criteria for return to sports	1
13) Advanced evaluation methods	1
PAPER IV	
SPORTS INJURIES, PREVENTION, MANAGEMENT AND REHABILITATION	
1) Principles of Prevention of Sports Injuries	1
2) Common sports injuries, mechanisms (causation), prevention and management	2
3) Sports emergency and first aid management.	1
4) Sports specific Injuries in different sports categories	1
5) Advanced Physiotherapy Intervention Techniques used in the Management of Sports Specific Injuries: Techniques	1
6) Sports injury prevention and management for special population	1
7) Guidelines and protocols for Return to sports following injury, conservative and Surgical management	2
8) SPECIAL TOPICS	2

CARDIO-VASCULAR AND PULMONARY SCIENCE [MPT CVP]

TOPICS	NO OF QUESTIONS
PAPER II	
BASICS OF CARDIOVASCULAR AND PULMONARY SCIENCES	
1) Applied Anatomy, Physiology, and Biomechanics of Respiratory System	1
2) Applied Anatomy and Physiology of Cardiovascular System	1
3) Applied Anatomy and Physiology of Integumentary System	1
4) Exercise Physiology	3
5) Pain	1
6) Health Promotion & Fitness	2
7) Exercise Physiology in Health and Disease across lifespan	1
PAPER III	
PHYSICAL ASSESSMENT AND FUNCTIONAL DIAGNOSIS OF CARDIOVASCULAR AND PULMONARY SCIENCES	
1) Assessment, Monitoring and Outcome measures in Critical Care Rehabilitation 2) Critical care investigations and its implications for physiotherapy	1
3) Respiratory System	2
4) Cardiovascular System	2
5) ANS Dysfunction and Testing 6) Assessment of Renal Dysfunction	1
7) Cardiopulmonary Rehabilitation (OPD Setting)	1
8) Peripheral Vascular Disorders 9) Integumentary System 10) Oncology	1
11) Pain Assessment & Evaluation 13) Evaluation and Diagnostic tool/ Equipment's used to assess fatigue	1
12) Exercise Testing in Different population (including metabolic syndromes, renal failure, obesity)	1
PAPER IV	
PHYSIOTHERAPY INTERVENTIONS IN CARDIOVASCULAR AND PULMONARY SCIENCES	
1) Cardio-pulmonary resuscitation, CPR- BLS Training 2) Acute and Critical Care Settings - Comprehensive management of adults 3) Intensive Care Management of Individuals with Primary Cardiovascular and Pulmonary dysfunction 4) Intensive Care Management of Individuals with Secondary Cardiovascular and Pulmonary dysfunction 5) Intensive Care Management of Medical and Surgical Complications (special emphasis on management of patients with burns, upper abdominal surgery, minimally invasive abdominal surgery)	1
6) Critical care management of Neonates, Infants and Pediatric Patients	1
7) Cardiovascular and Pulmonary Physical Therapy in stable and chronic conditions	1
8) Cardio respiratory Physiotherapy Skills & Therapeutics	4
9) Pharmacotherapy	1
10) Cardio Pulmonary Rehabilitation	1
11) Prevention of Cardiovascular, Endocrine, Metabolic and Pulmonary Diseases 14) Exercise Prescription for The People With Primary Cardiovascular And Pulmonary And Endocrine Conditions Exercise Prescription for the People with Non Primary Cardiovascular And Pulmonary and Endocrine Conditions	1

12) Diseases of Peripheral Vascular and Lymphatic system 13) Pain 15) Oncology 16) Physiotherapy Management of Integumentary System 17) Preventive and Long-Term Care	1
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PEDIATRICS [MPT-PED]

TOPICS	NO OF QUESTIONS
PAPER II APPLIED ANATOMY, PHYSIOLOGY AND BIOMECHANICS IN PAEDIATRICS	
1) General Paediatrics	3
2) Developmental Paediatrics	4
3) System Based Applied Paediatrics	3
PAPER III PHYSICAL AND FUNCTIONAL DIAGNOSIS IN PEDIATRICS	
1) Assessment in General Paediatrics	4
2) Assessment in Developmental Paediatrics	3
3) Assessment in System based Paediatrics	3
PAPER IV PAEDIATRIC PHYSIOTHERAPY / PHYSIOTHERAPEUTICS IN PAEDIATRICS	
1) Management in General Paediatrics	4
2) Management in Developmental Paediatrics	2
3) Management in System Based Paediatrics	4

NEUROLOGICAL SCIENCE [MPT-NEURO]

TOPICS	NO OF QUESTIONS
PAPER II BASIC SCIENCES FOR NEUROLOGICAL PHYSIOTHERAPY	
1) Anatomy and Physiology of nervous system	
2) Pathology and clinical features of nervous system disorders	3
3) Motor control	
4) Motor Development	1
5) Motor behavior of basic tasks	2
6) Motor learning and principles of promoting neuroplasticity	2
7) Exercise promotion and disease prevention	2
8) Reorganization and recovery	
PAPER III NEUROPHYSIOTHERAPY ASSESSMENT	
1) Body Structure and Function Assessment in neurological disorders	3
2) Neurological investigations	2
3) Motor Behavior Assessment	3
4) Activity limitation and Participation Restriction assessment using Functional Outcome Measures	2
PAPER IV NEUROPHYSIOTHERAPY TREATMENT	
1) Treatment of Body structure and Function impairments in neurological disorders.	4
2) Neurological Approaches and Technology enabled treatment techniques in retraining CNS and PNS disorders.	2
3) Functional Interventions for Promoting Neuroplasticity for improving Motor Behavior in various clinical disorders	2
4) Interventions for activity promotion and Participation Facilitation in various neurological disorders	2

COMMUNITY HEALTH [MPT-COM]

TOPICS	NO OF QUESTIONS
PAPER II APPLIED THEORIES, PHILOSOPHIES & GLOBAL PERSPECTIVES FOR PHYSIOTHERAPY IN COMMUNITY HEALTH	
1) Medical Anthropology & Global Health 2) Introduction to Behavioral Medicine	1
3) Health Education 4) Community Health 5) Health Care Delivery System	1
6) Technology in Healthcare Delivery	1
7) Disability & Health 8) Disability Laws, Policies and Advocacy	1
9) Rehabilitation	1
10) Principles & Biomechanics of Assistive Technology and Products	1
11) Occupational Biomechanics and Ergonomics	1
12) Gerontology	1
13) Health and gender	1
14) Oncology	1
PAPER III ASSESSMENT FRAMEWORK FOR PHYSIOTHERAPY SERVICE PROVISIONS IN COMMUNITY HEALTH	
1) International Classification systems of disease and health 2) Outcome Measures for Physiotherapy in Community Health	1
3) Assessment of Health Behavior Relevant to Physiotherapy Service Provision 4) Health Education Assessment	1
5) Assessment of Health Systems and Pathways 6) Community Health Assessment Relevant to Physiotherapy Service Provision	1
7) Physical Fitness Assessment	1
9) Assistive Technology & Products	1
10) Industrial Health and Ergonomics	1
11) Geriatrics	1
12) Health and gender	1
13) Oncology and Palliative Care	1
8) Disability and Rehabilitation 14) Accessibility Audit	1
PAPER IV PLANNING AND MANAGEMENT FRAMEWORK FOR PHYSIOTHERAPY SERVICE PROVISIONS IN COMMUNITY HEALTH	
1) Improving Physiotherapy Service Provisions within Healthcare Delivery Pathways 2) Health Promotion 3) Health Education	1
4) Behavioral and Community Health Approaches to Management of Chronic	1

Neuromuscular, Musculoskeletal and Non-Communicable Diseases	
5) Planning and Implementation of Rehabilitation Interventions	1
6) Community Based Approach to Healthcare	1
7) Assistive Technology and Products	1
8) Industrial Health and Ergonomics	1
9) Geriatrics	1
10) Gender and Health	1
11) Oncology and Palliative care	1
12) Research and Innovation in Community Health and Rehabilitation	1

MOVEMENT SCIENCE [MPT – MS]

TOPICS	NO OF QUESTIONS
PAPER II FUNDAMENTAL PRINCIPLES OF MOVEMENT AND ITS DYSFUNCTION	
1) Anatomical and physiological basis of movement	2
2) Motor control and its influence on movement	4
3) Growth development and degeneration of movement	2
4) Exercise physiology, Electrophysiology	2
PAPER III MEASUREMENT AND ASSESSMENT IN MOVEMENT	
1) Exercise testing, prescription, determinants and reasoning.	4
2) Biomechanics and kinesiology	3
3) Application in complex functions	3
PAPER IV MOVEMENT REMEDIATION	
1) Psycho-social aspects of exercise and movement – culture, preferences, societal barriers	2
2) Occupational biomechanics	4
3) Movement remediation methods in disease and dysfunction	4