MAHARAJ VINAYAK GLOBAL UNIVERSITY

QUESTION BANK

MPT 2 Year Integrated Degree Programme

(W.E.F. 2018 – 2019)

Faculty of Physiotherapy
(Jaipur Physiotherapy college)
Maharaj Vinayak Global University, Jaipur

University Campus: Dhand, Tehsil- Amer, Jaipur-Delhi National Highway, NH-11C, Jaipur- 303101

MAHARAJ VINAYAK GLOBAL UNIVERSITY

MPT (2 Year Integrated Degree Programme)

(w.e.f. 2018 –219)

Course Structure

(CBCS)

CORE COURSE:

Sr. No.	Paper
1.	Basic Science (MPT 101)
2.	Biomechanics & kinesiology (MPT 102)
3.	Physical & functional diagnosis & Recent Advances in physiotherapy (MPT 103)
4.	Research Methodology with Evidence Based Practice and Biostatistics (MPT104)
5.	Elective – I (MPT 105)
6.	Elective – II (MPT 106)
7.	Pedagogy & Management (MPT 107)
8.	Synopsis & Dissertation work (MPT 108)

COURSE CONTENT & STRUCTURE

The course subjects will be outlined under two major headings – Core Subjects or Subjects Mandatory for all students and Electives or Subjects of Specialty

Subjects	**Teaching & Learning Methods**	**Weekly Class Hours**	**Total Hours**
CORE SUBJECTS 1. Basic Science 2. Biomechanics &Kinesiology 3. Physical and Functional Diagnosis &recent Advances in Physiotherapy 4. Research Methodology with Evidence Based Practice and Biostatistics **5-6 ELECTIVE** 1. Orthopaedic Physiotherapy 2. NeurologicalPhysiotherapy 3. Cardio-Pulmonary Physiotherapy 4. Sports Physiotherapy 5. Paediatrics Physiotherapy 6. Obstetrics & Gynaecology. Physiotherapy	Lectures	2	180
	Seminars	2	180
	Practical and Demonstrations	4	360
	Clinical Discussions	2	180
	Clinical Case presentations	2	180
	Journal Club	2	180
	Classroom Teaching	1	90
	Library	3	270
	Clinical Training	15	1350
7. Pedagogy & Management	Classroom Teaching	1	50
Synopsis & Dissertation work		3	210
Community Camps, Field Visits, Participation in Workshops & Conferences			60
TOTAL HOURS		37	3290

MAHARAJ VINAYAK GLOBAL UNIVERSITY

Course Structure

MPT 2 Year Degree Programme

(w.e.f. 2018 –2019)

SCHEME OF EXAMINATION

MPT Part – I

Course Code	Subject	Theory	Internal	Univ.	Practical /Viva	Internal	Univ.	TOTAL MARKS
MPT 101	Basic Science	100	20	80	100	20	80	200
MPT 102	Biomechanics &Kinesiology	100	20	80	150	30	120	250
MPT 103	Physical and Functional Diagnosis & recent Advances in Physiotherapy	100	20	80	150	30	120	250
MPT 104	Research Methodology with Evidence Based Practice and Biostatistics	100	20	80	-	-	-	100
GRAND TOTAL								800

MPT Part – II								
Course Code	**Subject**	**Theory**	**Internal**	**Univ.**	**Practical / Viva**	**Internal**	**Univ.**	**TOTAL MARKS**
MPT 105	Elective – I	100	20	80	150	30	120	250
MPT 106	Elective – II	100	20	80	150	30	120	250
MPT 107	Pedagogy and Management	100	20	80	-	-	-	100
MPT 108	Synopsis & Dissertation work	-			200	40	160	200
GRAND TOTAL								800

PARTICULARS OF EXAMINATION AND DISTRIBUTION OF MARKS

A written examination consisting of 7 question papers each of three hours duration. The Paper-V & VI will be Elective subject & a separate paper for each elective subject chosen by the candidate will be given. Particulars of Theory question paper & distribution of marks are shown below.

PAPER	**SUBJECTS**	**MARKS**
Paper-I	Basic Sciences	200
Paper-II	Biomechanics	250
Paper-III	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	250
Paper-IV	Research Methodology with Evidence Based Practice and Biostatistics	100
Paper-V & VI	**Elective** 1. MPT- Orthopedics 2. MPT- Neurology 3. MPT- Cardio-pulmonary Diseases 4. MPT-Sports	500

	5. MPT- Obstetrics & Gynecology 6. MPT- Pediatrics	
Paper-VII	Pedagogy and Management	100
	Dissertation, Seminar and Case Presentation	200
GRAND TOTAL		**1600**

PARTICULARS OF CLINICAL / PRACTICAL EXAMINATION AND DISTRIBUTION OF MARKS

Clinical Examination will be aimed at examination of clinical skills and competence of the candidates for undertaking independent work as a specialist.

PRACTICAL	**SUBJECT**	**MARKS**
Practical-I	Short case from area other than Elective to to assess patient management skills	30
Practical-II	Short case from area of Elective to assess patient management skills	30
Practical-III	Major Elective long case aimed at examining clinical skills and competency of the candidate for undertaking independent work as specialist	60
	Total	120

PARTICULARS OF VIVA-VOCE & DISSERTATION

Viva- Voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence & oral communication skills. Special emphasis shall be given to dissertation work during the MPT part II examination. The marks of Viva-Voce examination shall be included in the clinical examination to calculate the percentage and declaration of results.

There shall be 2 examiners. One of them shall be external outside the university and the other shall be internal preferable from the same college or as decided by the university.

CRITERIA FOR DECLARING AS PASS IN UNIVERSITY EXAMINATION

A candidate shall be declared to have passed the examination if he/she has obtained the following qualifying marks:

(a) 50% marks in theory including written examination and internal assessment of each theory subject and

(b) 50% marks in practical including practical examination and internal assessment of the subject.

A candidate who secures not less than Sixty percent of marks in any subject shall be declared to have passed the examination in that subject in First Class and not less than Seventy Five percent for a Distinction provided he/she has passed all the subjects in first attempt.

MAHARAJ VINAYAK GLOBAL UNIVERSITY

MPT Part I
MPT 101:Basic Science

Paper 1 **Maximum Marks: 80**

Q1. Elaborate on:
1. Explain the scales of measurements with physiotherapeutic examples for each scale.
2. Pathomechanics of skeletal muscles.

Q2. Write notes on:
1. Role of arm in maintaining body Equilibrium.
2. Exercise at different altitudes.
3. Doping.
4. Ergonomics.
5. Validity.
6. Experimental Research design.
7. Principles of training.
8. Pathomechanics of Antalgic gait.
9. Isometric Training.
10. Closed kinetic chain.

Q3.Elaborate on :
1. Pathomechanics of mal posture.
2. Explain in detail about the functional adaptation of bone under pathological conditions.

Q4. Write notes on :
1. Measures of dispersion.
2. Factors affecting training.
3. Test of significance.
4. Fibonacci sequence.
5. Static deformities in knee joint.
6. Paralysis of scapulohumeral muscles.
7. Stability of wrist joint.

8. Hypothesis.
9. Uses of vital statistics.
10. Thermoregulation in heat stress.

Q5. Elaborate on :

1. Describe in detail about biomechanics and pathomechanics of thorax and abdominals in respiration.
2. Discuss about exercise at different altitudes and various climatic conditions.

Q6. Write notes on:

1. Group designs.
2. Exit assessment.
3. Outcome research.
4. Statistical reasoning.
5. Weighted capabilities.
6. Energy spectrum of exercise.
7. Pathomechanics of paraplegia.
8. Publishing physiotherapy research.
9. Biomechanical examination of foot.
10. Back care for physiotherapist in clinics.
11. Describe about injury prevention and ergonomics.
12. Discuss about heavy exertion and energy demands of various occupations.

Q7. Write notes on :

1. Matrix.
2. Adult education.
3. Funding in research.
4. Ground reaction forces.
5. Implementing the projects.
6. Static loading of the upper limb.
7. Principles of experimental design.
8. Biomechanics of peripheral nerves.
9. Measurement tools for physiotherapy research.
10. Energy delivery and utilization in endocrine system.
11. Enlist various physical fitness tests and write in detail about any two of them.
12. Write in detail about physiology of different types of bladder.
13. **Short note on any two. Each question contains 5 marks.**
    a. Cardiac cycle
    b. NCV
    c. DOMS

MPT Part I

MPT 102:Biomechanics & kinesiology

Paper 2 **Maximum Marks: 80**

1. Explain static and dynamic stabilizers of the knee?
2. Describe the relation between posture of spine and intradiscal pressure?
3. Explain the lumbo pelvic rhytheme?
4. Explain gait assessment in saggital plane?
5. Explain ideal computer work station design?
6. Explain the structure of connective Tissues in detail?
7. Explain the structure of shoulder joint with suitable diagram?
8. Write short note on:

I. Lumbo pelvic Rhythm
II. Young's Modulus
III. Newton's Law of Inertia
IV. Screw Home Mechanism
V. Supination twist & Pronation twist
VI. Waddling gait

9. Describe the dynamic stabilizers of the shoulder joint? Explain the pathomechanics of supraspinatous tendinities?
10. Explain the pathomechanics of scoloiosis in detail with suitable diagrame?
11. Define Ergonomics? Explain its importance for a computer operator in detail and give ergonomic advice for the same?
12. Describe Prevocational assessment in detail?
13. What is Human engineering explain it?
14. Define Neuroglia? Write in detail about the classification of Neuroglia cells.

15. What is receptor? Classify receptors through flow charts and describe interceptors?

16. Give detail about description of motion.
17. Describe concurrent force system with suitable example with diagram?

18. Attempt any one
    (a) Describe excitatory function of synapses?
    (b) Describe Anatomical pully with well explained diagnosis

19. Short Note

    (a) Newton's law of inertia.
    (b) Myelin sheath.
    (c) Lever.
    (d) Nissl Bodies.
    (e) Torque.
    (f) Labelled diagram of cross section of nerves.
    (g) Importance of movement Arm.

(h) Parallel force system.

20.Describe the kinematics of the ribs & Manubriosternum?

21.Describe the mechanical property of connective tissue?

22.Define reflex & reflex are? Add a short note on reciprocal inhibition and reciprocal innervations.

23.Draw a well labeled diagram showing linear & concurrent force system and also draw diagram showing the resultant of linear and concurrent force system.

24.Write down the difference in structure and function of lungs in neonates and adults.

25.Describe levers with suitable example and labeled diagram.

26.Short Note.

(a)Lung volumes & capacities.(b) Anatomical pully
(c) Diaphragm (d) Torque
(e) Motor Unit (f) Muscle contraction
(g) Volitional movements. (h) Diarthroses

27.Describe the "Q-angle" and add a short note on screw home mechanism.

28. Describe the anatomy and movements of functional joint of shoulder complex.

29. What is menisci & it's functions? Also write down about patellar plicae.

30.Describe angle of torsion and angle of inclination and their effect on GH motion.

31.What is "Genu Valgum" and Genu varum.

32.Describe the resting position of scapula.

33.Describe the motions of patella.

34.Describe the role of dynamic stabilizers of GH joint with diagram.

35.Describe the tarso metatarsal joint structure & function.
36.Describe the articulating surfaces & functions of the subtalar joint.
37.Short notes:-

- Calcaneovalgus.
- Calcaneovarus.
- Tarsal Tunnel.
- Deltoid ligament

38. Define carrying angle. Explain its normal biomechanics.
39.Short notes:-
(i) Scapulo-humeral rhythm.
(ii) Deltoid muscle function.
40.Short notes:-
(i) Ligaments of elbow.
(ii) Flexor group of muscles of elbow.

41.Describe the classes of lever in regarding muscle function with diagram?
42. Write down the synovial joint classification with their examples?
43.What do you understand by load deformation curve? Explain it parts.
44.**Short question**

1. Concave convex rule
2. Kinetic chain
3. Cartilaginous joint.

45.Describe the structure of skeletal muscle with diagram?

MPT Part I

MPT 103:Physical and functional diagnosis & recent advances in physiotherapy

Paper3 Maximum Marks: 80

Q.1 Give brief description of orthotic gait? Explain its assessment and training procedure in detail?
Q.2 Explain the measurement of wheelchair with well labled diagram? Explain the difference between the normal and sports wheelchair in detail?
Q.3 List down the common coordination defects associated with cerebellum, basal ganglia and dorsal columns. Explain the Physiotherapy management for ataxia in detail?
Q.4 Define low frequency currents. Explain its classification, physiological effects and contraindications?
Q.5 List down the common motor control defects. Describe the tests used to assess motor control defects?
Q.6 Describe Observational Gait Analysis in detail?
Q.7 Describe levels of amputation. Discuss various post amputation complication with their detail medical & physiotherapy treatment?

Q.8 Write short note on:

1. Symes Amputation
2. Importance of monitoring vital signs
3. Treatment planning strategies
4. Kinematic qualitative gait analyses
5. Pre fitting physiotherapy for amputee
6. Pre ambulation programe.

Q.9 Describe Gait-cycle according to RLA. Describe the Determinants of gait & its importance.

Q.10 Elaborate in detail about importance of monitoring vital signs & techniques of monitoring vital signs.

Q.11 Measurement of wheelchair
Q.12 Hydrotherapy
Q.13 S-D Curve & its Interpretation .
Q.14 Explain Iontophoresis and its recent advances.
Q.15 Describe assessment of wheelchair.
Q.16 Describe GCS.

Q.17 Explain the importance of Evidence Based Practice.

Q.18 Explain pain gait theory and its importance.

Q.19 Explain the principles of assessment and evaluation.

Q.20 Explain burn, its type. Design detailed physiotherapy management for a burn patient.

Q.21 Write rehabilitation protocol for a 70 year old geriatric patient after unilateral TKR.

Q.22 Describe the principles of geriatric rehabilitation. Describe the rehabilitation protocol for Parkinsonism patient.

Q.23 Describe in detail about the sensory examination of a patient suffering from traumatic brain injury.

Q.24 Define ergonomics. Design an effective ergonomic advice plan for a software engineer.

Q.25 Describe common peripheral nerve injuries and their PT management.

Q.26 Explain in detail about importance of monitoring vital signs & techniques of monitoring vital signs.

Q.27 Describe the parts of wheelchair and their functions. Draw a neat diagram of wheelchair & explain its measurements.

Q.28 Short note on any two.

a. Neurophysiology of pain

b. GCS

c. Cryotherapy

MPT Part I

MPT 104: Research Methodology with Evidence Based Practice and Biostatics

Paper 4 Maximum Marks: 80

Q.1 What is research proposal. Discuss about components and relevance of research proposal?

Q.2 What is research design and explain its different types. Also explain the need and features of a good research design.

Q.3 Write short notes on:

(a) Difference between mean deviation and standard deviation.

(b) Difference between NULL hypothesis and alternative hypothesis.

Q.4 Discuss briefly about:-

(a) Positive and negative correlation with examples.

(b) Importance of ethics in research.

Q.5 Discuss about evidence based practice and its relevance in physiotherapy.

Q.6 What is research proposal? Discuss about components & relevance of research proposal?

Q.7 Calculate arthmatic mean from the following frequency distribution by direct, short cut & step deviation method.

C.I.	F
1-5	5
6-10	10
11-15	20
16-20	15
21-25	10

Q.8 Importance of ethics in research.

Q.9 ROL. [5]

Q.10 Arrange the following data about weight in KG of 40 students in discrete & continuous series with inclusive & exclusive type.

Weight(KG)-

50,52,53,52,54,53,60,58,59,60,61,52,53,54,56,54,57,56,59,60,49,51,49,52,53, 54,56,57,48,50,60,61,62,62,61,59,57,58,59,60.

Q.11Discuss about evidence based practice and its relevance in physiotherapy.

Q.12Calculate arthmatic means from the following frequency distribution by direct, short cut & step deviation method.

(X)	F
10-20	4
20-30	6
30-40	20
40-50	10
50-60	7
60-70	3

Q.13 Define case study. Explain different type of case study designs.

Q.14 Explain the following:-

(a) Qualitative & Quantitative research.

(b) Reliability & validity

Q.15Expalin the following.

(a) ROL

(b) Type I & Type II error.

Q.16Define characteristics of good questioner, explain each characteristic?

Q.17Define different types of data measuring scale?

Q.18What are the different methods of computing central tendency. Explain any one method in detail?

Q.19Write short note on:

i. Validity & Reliability
ii. Inclusion & Exclusion Criteria
iii. Pilot Study.

Q.20 What are the different types of Research Designs - define them? Explain their design and instrumentation used in detail?

Q.21Explain sampling in detail?

Q.22Short Notes: - Attempt any two

Q.23 What are the main ethical principles that govern research with human subjects describe them?

Q.24What do you mean by evidence-based practice, explain its importance in the field of research?

Q.25 List down all parametric & non parametric tests, explain any two of them?

***

MPT Part II

MPT 105: Elective I(Orthopaedics)

Paper 5 Maximum Marks: 80

Q.1 Elaborate on :

1. Explain the effects of thoracic kyphosis on the function of Shoulder joint.
2. Physiotherapy evaluation of low back pain. Discuss about its Differential diagnosis in detail.

Q.2 Write notes on :

1. Role of PT in wellness.
2. Ankle Sprain.
3. Evidence based practice.
4. Femoral Triangle.
5. Uses of External Fixator.
6. Patho Mechanics of menisci.
7. Evaluation of crush injuries of hand.
8. Isokinetic Exercises.
9. Tests for Tennis Elbow.
10. Types of wound debridement.

Q.3Elaborate on :

1. Write an Essay on Values of Patient care, add a brief note on code of ethics, value-laden situations.
2. Write in detail about the steps involved in the Fracture healing process. Add a note on Neer classification of the fracture Humerus.

Q.4Write Notes on :

1. Assessment on Lateral collateral ligament injury of ankle.
2. CTEV.
3. Fracture Patella.
4. Low back pain.
5. Osteoarthritis of the Knee.
6. Pain assessment.
7. Physiotherapy for Fracture Neck of Femur.
8. Principles of Arthodesis.

9. Tarsal tunnel syndrome.
10. Tennis Elbow.

Q.5 Elaborate on:

1. Write a detailed assessment on examination of Environment and functional status.
2. Write a detail assessment of orthopedic physiotherapy. Add a detailed note on special test.

II. Write notes on:

1. Joint Play.
2. Manual muscle power grading.
3. Patellar dislocation.
4. Types of spinal fracture.
5. Hip Arthroplasty.
6. Spondylolesthesis.
7. Rheumatoid Hand.
8. Tendon transfer.
9. Carpal tunnel Syndrome.
10. Fat embolism.

Q.6 Elaborate on:

1. Write an Essay on influence of Psychological factors of rehabilitation.
2. Write in detail about the assessment of Posture. Add a brief note on Special test.
3. Mention some special test for Low back pain.

Q.7 Write notes on:

1. Bone Graft.
2. DDH.
3. Joint play.
4. Mallet Finger.
5. Mechanical low back pain.
6. Physiotherapy for Fracture Scaphoid.
7. Principles of Osteotomy.
8. Rheumatoid arthritis for hand.
9. Thoracic outlet syndrome.
10. Volkmann’s Ischemic Contractures.

MPT Part II

MPT 106: Elective II(Orthopaedics)

Paper 6 Maximum Marks: 80

1. Define TKR. Explain its complications, write an elaborated assessment and PT rehab for a 40 years old male?
2. Describe rotator cuff injury, draw a labelled diagram of shoulder joint showing the rotator cuff muscle, design a elaborated assessment and rehabilitation protocol for the same?
3. Describe the pathomechanics of o'donoghue triad?
4. Describe the rehabilitation protocol for brachial plexus injury?
5. Describe the pre and post prosthetic training for below knee amputie?
6. Effects of aging on joints and muscle, explain and discus a plan to reduce such effects.
7. Discuss the patho-physiology of stress fracture. Write a comprehensive plan to avoid such injuries.
8. What is exercise testing?
9. Pathophysiology of tennis elbow?
10. Muscle plasticity?
11. Define Geriatric Rehabilitation? Explain the methods of prevention of cardiopulmonary deconditioning among geriatric patient?
12. List down the common arthritic conditions? Explain the Detail PT management of Rheumatoid Arthritis.?
13. Write Short Note (Any Five)

1. Aging of the musculoskeletal
2. Stroke Rehabilitation in Geriatric Patient
3. Falls Prevention in elderly
4. Exercises Prescription for elderly
5. Avascular Necrosis of Hip
6. Gait deviations in Parkinson's disease

14. Discuss the management of bilateral above knee amputations.
15. Describe Acl rehab protocol.
16. Describe rotator cuff injuries.
17. Mulligan`s manual therapy.
18. Write a short easy on Plyometrics.
19. Enlist various injuries of knee joint. Discuss the rehabilitation for the grade III injured medial collateral ligament of 25yr. old male athlete.

20.Write in detail about the over head sports injuries. Its P.T management in detail along with assessment.

21. Jumper’s knee

22.Sportsman’s hernia.

23.Os good-schlatter lesion.

****

MPT Part II

MPT 105: Elective I(Neurology)

Paper 7 Maximum Marks: 80

Q.1Elaborate on :

1. Describe the limbic system. Explain the control of motor activity of brainstem that regulate and coordinate the movements.
2. Describe the disorder of spinal cord. Explain the movement analysis of functional mobility skill and assessment of assistive devices in spinal cord injury.

Q.2 Write notes on :

1. Assessment of Balance.
2. Visual Dysfunction.
3. Today's heath care model.
4. Level of consciousness.
5. Elements of evidence based practice.
6. Neuromuscular junction.
7. Brain injury classification.
8. Assessment of autonomic nervous system.
9. International classification of impairment, disability and handicap model.
10. Learning disorder.

Q.3 Elaborate on :

1. Write about the need and purpose of physiotherapy assessment. Add a note on the preferred patterns of practice in physiotherapy.
2. Describe about various electro diagnostic test for neurological Dysfunction. Explain about Somatosensory evoked potentials and its usefulness in diagnosing neurological dysfunction.

Q.4Write Notes on:

1. Fatigue.
2. CSF Examination.
3. Muscle tone and its abnormalities.
4. Lacunar stroke.
5. Assessment of primitive reflexes.
6. Types of sensation.
7. Craniovertebral junction anomalies.
8. Brunnstrom's stages of recovery.
9. Involuntary movement.

10. Role of brain stem in motor control.

Q.5 Elaborate on:

1. Describe in detail the development of nervous system.
2. Enumerate the clinical signs and symptoms of cerebellar lesion and its PT Assessment.

Q.6 Write notes on:

1. Principles of Evidence based practice.
2. Scales to quantify cognitive function.
3. Apraxia.
4. Intervention strategies in Architectural Barrier.
5. APTA'S Preferred practice pattern in Neuromuscular physiotherapy.
6. Brain Lateralisation.
7. Limbic System.
8. Assessment of Balance.
9. Modified Plantigrade.
10. Kinematic gait analysis.

Q.7 Elaborate on:

1. Explain in detail the Neural control of locomotion .
2. Enumerate the pathophysiology, impairments & assessment of Traumatic Brain Injury.

Q.8 Write notes on:

1. Code of Ethics.
2. Stretch Reflex.
3. Neurulation.
4. Conceptual Framework for Clinical Practice.
5. Influence of psychosocial factors on Rehabilitation.
6. Pain Gate Theory.
7. Striatonigral Pathway.
8. Assessment of Developmental Milestone.
9. Tabetic Syndrome.
10. Craig-Scott Orthosis.

MPT Part II

MPT 106: Elective II (Neurology)

Paper 8 Maximum Marks: 80

Q.1 Write down the different theories of motor control in detail.

Q.2 Discuss briefly about clinical presentation & EMG changes in Duchene's Muscular Dystrophy. Explain its physiotherapy management.

Short Notes: - Attempt any two

Q.4 Write down developmental milestones.

Q.5 Write down about NDT.

Q.6 Role of vestibular system in neural control of locomotion.

Q.7 Explain RLA scale of cognitive function? Discuss physiotherapy management of spasticity.

Q.8 Write down the complete rehabilitation of complete head injury.

Short Notes: - Attempt any two

Q.9 Patho physiology of Parkinsonism.

Q.10 Modified Ashworth Scale and its uses.

Q.11 Write down physiotherapy management of pressure sores.

Q.12 Explain the role of physiotherapist in Geriatric rehabilitation.

Q.13Discuss causes, features & PT management for Parkinson's disease.

Short note on (attempt any two). Each question contains 5 marks.

Q.14 Stroke rehabilitation

Q.15 Fall prevention

Q.16 Rood's approach

Q.17 Explain the role of physiotherapist in Geriatric rehabilitation.

Q.18 Discuss causes, features & PT management for Parkinson's disease.

Short note on (attempt any two). Each question contains 5 marks.

Q.19 Stroke rehabilitation

Q.20 Fall prevention

Q.21 Rood's approach

Q.22Write down the neurological assessment for Spinal Cord injury patient? Explain the methods for preventing complication in Spinal Cord injury Patient?

Q.23Write Wheelchair assessment? Explain how to train a paraplegic patient from bed to wheelchair and again from wheelchair to bed?

Q.24 Write Short Note (Any Five)

1. Brown Squared Syndrome
2. Roods approach
1. Gait training for a hemiplegic patient
2. Movement Disorder
3. Breathing exercises for Abdominal Surgery patient

4. Neural Developmental Tech.

Q.25 Write down the different theories of motor control in detail.
Q.26 Discuss briefly about clinical presentation & EMG changes in Duchene's Muscular Dystrophy. Explain its physiotherapy management.
Q.27Short Notes: - Attempt any two
Q.28 Neuroplasticity and Engrams.
Q.29 NDT.
Q.30 Central Pattern Generators

***

MPT Part II

MPT 107: Pedagogy & Management

Paper 9 Maximum Marks: 80

Q.1 Define Education. Explain the philosophical theories of education.

Q.2 Explain Gyplain the fundamentals of hospital administration.

Short note on (attempt any two).
Q.3 Active V/S passive learning.
Q.4 Educational guidance.
Q.4 Functions of Management.
Q.5 Define philosophy of education? Explain different aims of education ?

Q.6 Define management? Elaborate its function in detail?

Q.7 Short note on attempt any three.

a. Formal education & informal education.
b. Importance of financial management.
c. Autonomy & accountability.
d. Fundamental of hospital administration.

Q.8 Write down short note on educational philosophy.
Q.9 Elaborate functions of management.
Q.10 Short note on:-

a) Case study
b) Teaching aids,

Q.11 Explain the importance of Ethics in Physiotherapy.
Q.12 Explain any two learning theories.
Q.13 Explain the strategies of time management.

Q.14 Define Education. Explain the philosophical theories of education.

Q.15Explain Gyplain the fundamentals of hospital administration

Q.1 6Active V/S passive learning.
Q.17 Educational guidance.
Q.18 Functions of Management.