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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – I: SECTION “B”: RECENT ADVANCES IN PAEDIATRIC PHYSIOTHERAPY
(SPECIALITY AREA: PAEDIATRICS)

Wednesday, June 03, 2015

Time: 10:00 – 11:30 Hrs.

Max. Marks: 50

- ✍ **Answer ALL questions.**
- ✍ **All questions carry equal marks.**

1. Advances in measurement of diastases recti and its management.
2. Describe Kangaroo mother care. Explain its application in premature infants.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE: PAEDIATRIC PHYSIOTHERAPY
(SPECIALITY AREA: PAEDIATRICS)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ All questions carry equal marks.

1. Write on:

1A. Role of physiotherapy in Osteogenesis Imperfecta

1B. Exercise training in childhood asthma

2. Explain management of spastic cerebral palsy.

3. Enumerate various theories of motor learning, motor development and motor control and describe in detail about Fitts and Posners theory.

4. Answer the following:

4A. Enumerate common pediatric Oncological conditions.

4B. Explain in detail about the management of Hemophilia.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - I: SECTION "A": GENERAL IN ALL TOPICS IN ORTHOPAEDIC CONDITIONS
(SPECIALITY AREA: ORTHOPAEDICS)

Monday, June 01, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL questions.
- ✍ All questions carry equal marks.

1. Describe clinical presentations and common complications following C5-C6 Spinal cord injury and their management.
2. Describe Cyriax school of thought.
3. Assessment and management of stiff hand.
4. **Write a short note on:**
 - 4A. Movement diagram
 - 4B. Sensory re-education
 - 4C. Rationale for kinesiотaping
 - 4D. Splinting in radial nerve injury



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015
SUBJECT: PAPER - I: SECTION "B": RECENT ADVANCES IN ORTHOPAEDIC CONDITIONS
(SPECIALITY AREA: ORTHOPAEDICS)

Wednesday, June 03, 2015

Time: 10:00 – 11:30 Hrs.

Max. Marks: 50

- ✍ Answer ALL questions.
- ✍ All questions carry equal marks.

1. Physiotherapy management for trigger point.
2. Assessment of foot posture.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – II: ELECTIVE – SPORTS REHABILITATION
(SPECIALITY AREA: ORTHOPAEDICS)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL questions.
- ✍ All questions carry equal marks.

1. Explain the injury mechanics and preventive strategies for tennis player.
2. Explain the kinematics relationship between the foot abnormalities and development of musculoskeletal injuries in sports.
3. Explain the causes for back ache in sports. Discuss the rehabilitation of non specific back aches for a long distance runner.
- 4A. Write about Onset of blood lactate accumulation.
- 4B. Write about plyometric exercise in sports rehabilitation.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE – HAND REHABILITATION
(SPECIALITY AREA: ORTHOPAEDICS)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

1. Discuss the general principles for rehabilitation of wrist injuries.
(25 marks)
2. Discuss the physiotherapy management following a flexion tendon repair in zone II.
(25 marks)
3. Classify nerve injuries. Explain the assessment and management following radial nerve injury due to fracture of humeral shaft.
(6+7+12 = 25 marks)
4. **Write short notes on:**
 - 4A. Ninhydrin sweat test
 - 4B. Pinch Strength measurement
 - 4C. Dupuytren's disease
 - 4D. Postoperative therapy following vessel repair
 - 4E. Mallet finger

(5 marks × 5 = 25 marks)



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE: MANUAL THERAPY
(SPECIALITY AREA: ORTHOPAEDICS)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
- ✍ **All questions carry equal marks.**

1. Classify movement impairment syndromes of shoulder joint. Discuss the clinical presentation and management of each.
2. Describe the different methods of testing deep cervical neck flexor endurance. Discuss treatment techniques used for deep cervical neck flexor retraining.
3. Explain the application of integrated neuromuscular inhibition technique for management of a patient with Piriformis trigger point.
4. Compare and contrast the schools of thought osteopathy versus chiropractic.



MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015
SUBJECT: PAPER – I: SECTION “A”: GENERAL IN ALL TOPICS IN PAEDIATRIC PHYSIOTHERAPY
(SPECIALITY AREA: PAEDIATRIC PHYSIOTHERAPY)

Monday, June 01, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

☞ Answer ALL questions.

1. Discuss anatomy of pelvic floor muscles and its role in core stability.
(25 marks)
2. Discuss tonic labyrinthine and tonic neck reflexes.
(25 marks)
3. Discuss physiotherapy management strategies in normal versus caesarean section.
(25 marks)
4. Write short notes on:
 - 4A. Dysmenorrhea and physiotherapy
 - 4B. Sensory stimulation in neonatal intensive care unit
 - 4C. Postural control development between three to six months
 - 4D. Embryologic development of cardiopulmonary system
 - 4E. High risk factors in cerebral palsy

(5 marks × 5 = 25 marks)



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE: WOMEN'S HEALTH PHYSIOTHERAPY
(SPECIALITY AREA: PAEDIATRIC PHYSIOTHERAPY)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

1. Discuss the common problems associated with the musculoskeletal system during adolescence. Add a note on the effect of exercise on bone growth and stature. (25 marks)
2. Discuss in detail the pelvic floor muscles and its role in a female. (25 marks)
3. What is the role of physiotherapy in the child bearing age? (25 marks)
4. Explain the following:
 - 4A. Physiotherapy assessment of common neonatal neurological conditions.
 - 4B. Explain how will you manage cardiovascular and respiratory system complications in post Caesarean section. (15+10 = 25 marks)



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - I: SECTION "A": GENERAL IN ALL TOPICS IN
CARDIO PULMONARY SCIENCES

(SPECIALITY AREA: CARDIO PULMONARY SCIENCES)

Monday, June 01, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

☞ Answer ALL questions.

1. Discuss the submaximal tests commonly performed by an exercise professional. (25 marks)
2. Explain in detail the physiology of mucociliary escalation and add a brief note on the various methods to improve bronchial hygiene. (25 marks)
3. Influence of cardiovascular and respiratory medications on exercise response. (25 marks)
4. Write short notes on:
 - 4A. Prone positioning
 - 4B. Absolute and relative contraindications to clinical exercise testing
 - 4C. Complications of Exercise
 - 4D. Assisted coughing techniques
 - 4E. Modes of Oxygen delivery

(5 marks × 5 = 25 marks)



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART-II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - I: SECTION "B": RECENT ADVANCES IN CARDIO PULMONARY SCIENCES
(SPECIALITY AREA: CARDIO PULMONARY SCIENCES)

Wednesday, June 03, 2015

Time: 10:00 – 11:30 Hrs.

Max. Marks: 50

- ✍ Answer ALL questions.
- ✍ All questions carry equal marks.

1. Exercise prescription for cancer related fatigue
2. Write about peripheral muscle strength measurement in chronic obstructive pulmonary disease.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – II: ELECTIVE: ICU MANAGEMENT
(SPECIALITY AREA: CARDIO PULMONARY SCIENCES)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **All questions carry equal marks.**

1. Explain the effects of mobilization on enhancing the efficiency of oxygen transport in critically- ill patient.
2. Discuss in detail about physiological effects of positive pressure ventilation.
3. When treating infants to improve airway clearance, what are the precautions/considerations of:
 - 3A. Manual hyperinflation
 - 3B. Postural drainage
 - 3C. Percussion
 - 3D. Vibration
 - 3E. Airway suctioning
4. **Write short notes on:**
 - 4A. PNF in respiration
 - 4B. Humidification and nebulization



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – II: ELECTIVE – HEALTH PROMOTION AND FITNESS
(SPECIALITY AREA: CARDIO PULMONARY SCIENCES)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
- ✍ **All questions carry equal marks.**

1. Write the physiotherapy management used in wound management.
2. Acute and chronic adaptation of neuromuscular system to resistance training.
3. A 42 years old laborer admitted to the hospital with buccal mucosa carcinoma who has under reconstructive surgery. Discuss the preoperative and postoperative Physiotherapy assessment and management for.
4. Write the exercise prescription for metabolic syndrome.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE: CARDIO PULMONARY REHABILITATION
(SPECIALITY AREA: CARDIO PULMONARY SCIENCES)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

☞ Answer ALL questions.

1. Discuss physiotherapy management for peripheral arterial disease.
2. Discuss the role of respiratory and skeletal muscle strength in chronic obstructive pulmonary disease.
3. Discuss the role of physiotherapy in paediatric respiratory care.
4. Discuss phase I cardiac rehabilitation following Myocardial infarction.

(25 marks × 4 = 100 marks)



MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015
SUBJECT: PAPER – I: SECTION “A”: GENERAL IN ALL TOPICS IN COMMUNITY PHYSIOTHERAPY
(SPECIALITY AREA: COMMUNITY PHYSIOTHERAPY)

Monday, June 01, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL questions.**
✍ All questions carry equal marks.

1. Define CBR. Explain the principles of CBR and its role in inclusive society. (25 marks)

2. Explain the role of physiotherapist in school health programs. (25 marks)

3. Discuss assistive technology under the following headings:
3A. Decision making and prescription
3B. Role in community based rehabilitation (15 + 10 = 25 marks)

4. Explain aging with disabilities under the following headings:
4A. Etiology and risk factors
4B. Preventive management (15 + 10 = 25 marks)



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – I: SECTION “B”: RECENT ADVANCES IN COMMUNITY PHYSIOTHERAPY
(SPECIALITY AREA: COMMUNITY PHYSIOTHERAPY)

Wednesday, June 03, 2015

Time: 10:00 – 11:30 Hrs.

Max. Marks: 50

- ✍ **Answer ALL questions.**
- ✍ **All questions carry equal marks.**

1. Write on Occupational risk assessment.
2. Discuss fall assessment and prevention strategies in the elderly.



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE: GERIATRICS
(SPECIALITY AREA: COMMUNITY PHYSIOTHERAPY)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

 **Answer ALL questions.**

 **All questions carry equal marks.**

1. Explain the psychosocial issues of rehabilitation in elderly.
2. Chronic pain and rehabilitation in elderly population.
3. Institutionalization in elderly.
4. Describe the role of exercise in elderly with hypertension under following headings:
 - 4A. Exercise testing
 - 4B. Prescription
 - 4C. Precautions
 - 4D. Barriers



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – I: SECTION “A”: GENERAL IN ALL TOPICS IN NEUROLOGICAL CONDITIONS
(SPECIALITY AREA: NEUROSCIENCES)

Monday, June 01, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
- ✍ **All questions carry equal marks.**

1. Explain the strategies of postural control in normal and perturbed stance.
2. Explain the rationale behind the application of inhibitory techniques in patients with neurological disorders.
3. Write about instrumentation and technique of NCV studies.
4. **Write short notes on:**
 - 4A. Physiology of swallowing
 - 4B. Neurogenic bladder
 - 4C. Closed loop theory of motor learning
 - 4D. Associated reactions
 - 4E. Primitive reflexes



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER – I: SECTION “B”: RECENT ADVANCES IN NEUROLOGICAL CONDITIONS
(SPECIALITY AREA: NEUROSCIENCES)

Wednesday, June 03, 2015

Time: 10:00 – 11:30 Hrs.

Max. Marks: 50

- ✍ Answer ALL questions.
- ✍ All questions carry equal marks.

1. Strength training in Balance and Gait in stroke rehabilitation.
2. Advances of Ankle Foot Orthosis and its implication on gait in cerebral palsy.



MANIPAL UNIVERSITY**MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015****SUBJECT: PAPER - II: ELECTIVE: PAEDIATRIC NEUROLOGY
(SPECIALITY AREA: NEUROSCIENCES)**

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
✍ **All questions carry equal marks.**

1. Describe hypoxic ischemic encephalopathy and role of physiotherapy in these infants.
2. Mention the problems faced by Developmental co-ordination disorder and role of physiotherapy in its management.
3. Describe any three outcome scales for the neuromotor assessment of preterm infants.
4. **Write short notes on:**
 - 4A. Advantages of supramalleolar orthosis
 - 4B. Tonic labyrinthine reflex
 - 4C. Meconium Aspiration Syndrome
 - 4D. Intra-uterine development of sensory system in Infants
 - 4E. Vestibular stimulation and its role in sensory integration



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MANIPAL UNIVERSITY

MASTER OF PHYSIOTHERAPY (MPT) PART – II DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER - II: ELECTIVE: ADULT NEUROLOGY
(SPECIALITY AREA: NEUROSCIENCES)

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
- ✍ **All questions carry equal marks.**

1. Classify Diabetic neuropathies. Write in detail physiotherapy management for the same.
2. Essay on Assessment and physiotherapy management of shoulder dysfunctions in hemiplegia.
3. Tone facilitatory and inhibitory treatment techniques using somato-sensory and vestibular systems.
4. Discuss the restoration of motor control following diffuse axonal injury with predominant dysfunctions of posterior cranial fossa structures.

