

# Question Paper

Exam Date & Time: 30-Nov-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (CARDIOPULMONARY SCIENCES) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.1 - GENERAL IN CARDIOPULMONARY SCIENCES  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss the evaluation of a critically ill patient and role of physiotherapy in the prevention and management of Intensive care Unit acquired weakness. (25)  
(5+20 = 25 marks)
- 2) Write about the role of hyperbaric oxygen therapy and LASER in wound healing of a diabetic ulcer. (25)  
Discuss patient education in the prevention of diabetic ulcer. Add a note on exercise prescription in patient with unhealed diabetic ulcer.  
(10+10+5 = 25 marks)
- 3A) Write the role of physiotherapy in cancer rehabilitation of a patient undergoing palliative care. (10)
- 3B) Discuss renal rehabilitation - rationale and advantages of intradialytic rehabilitation. (10)
- 3C) Discuss the evaluation and management of post-operative pain. (10)
- 3D) Write the assessment and management of respiratory muscle dysfunction. (10)
- 3E) Write in detail the strategies to improve impaired gas exchange. (10)

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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (NEUROSCIENCES) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.2 - GENERAL IN NEUROSCIENCES  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss the various methods of measurements of spasticity and the principles of physiotherapy management. (25)
- 2) Describe the gait deviations in children with spastic diplegia. Discuss the evaluation and management strategies for the same. (25)
- 3A) Write a short note on mirror therapy for upper limb training in stroke. (10)
- 3B) Discuss the neurogenic and myogenic potentials during various stages of EMG recording. (10)
- 3C) What are the steps in motor relearning program explain with an example? (10)
- 3D) Discuss the types of wheelchairs. (10)
- 3E) Describe the management of a patient with posterior canal BPPV. (10)

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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (MUSCULOSKELETAL SCIENCES) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.3 - GENERAL IN MUSCULOSKELETAL SCIENCES  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- |     |   |      |
|-----|---|------|
| 1)  | Assessment and management of stiff hand.<br>(10+15 = 25 marks)  | (25) |
| 2)  | Assessment and management of deformities of lower limb in cerebral palsy.<br>(10+15 = 25 marks)         | (25) |
| 3A) | Discuss McKenzie derangement syndromes of lumbar spine.   | (10) |
| 3B) | Discuss splinting in radial nerve injury.   | (10) |
| 3C) | Discuss the rationale and assessment of flexibility for musculoskeletal fitness in athletic population. | (10) |
| 3D) | Write in detail assessment of sacroiliac joint dysfunction.   | (10) |
| 3E) | Discuss in detail movement impairments syndromes of shoulder.   | (10) |

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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (COMMUNITY PHYSIOTHERAPY) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.4 - GENERAL IN COMMUNITY PHYSIOTHERAPY  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

**Answer all the questions.**

- |     |   |      |
|-----|---|------|
| 1)  | Discuss the etiology, pathophysiology and remedial measures for occupational stress.    | (25) |
| 2)  | Discuss the biomechanics of lifting.  | (25) |
| 3A) | Discuss the principles and scope of ergonomics.   | (10) |
| 3B) | Discuss the various factors governing human information processing.                     | (10) |
| 3C) | Discuss the various types of occupational hazards and preventive measures for the same. | (10) |
| 3D) | Give an overview of the essential components of a worksite wellness program.            | (10) |
| 3E) | Discuss the anthropometric principles used in the design of tools for precision tasks.  | (10) |

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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (GERIATRICS) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.5 - GENERAL IN GERIATRICS  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss the age related changes to musculoskeletal and cardiovascular system, emphasizing on the implications of them in frailty syndrome, intervention goal setting, and exercise prescription. (25)  
(10+5+5+5 = 25 marks)
- 2) Discuss the use of ICF model, in collection and assimilation of clinical data, for rehabilitation of patients with Parkinson's disease. (25)
- 3A) Brief overview of fall risk identification using objective tools in elderly. (10)
- 3B) Discuss the management goals and means of intervention, in elderly with cognitive impairment. (10)
- 3C) Discuss the application of principles of universal designs in creating safe functional environment for elderly. (10)
- 3D) Assistive technology for community reintegration of elderly with frailty syndrome. (10)
- 3E) Discuss the ethical issues in use of restraints in elderly with cognitive dysfunction. (10)

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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (PEDIATRICS) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.6 - GENERAL IN PAEDIATRICS  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) What is Early Intervention? Describe the strategies for early intervention in a 9 month old baby with Developmental Delay. (20)
- 2) Exercise testing and prescription in a child with Spastic Cerebral Palsy. (20)
- 3A) Role of Physiotherapy in the assessment and management of a child with Erb's Palsy. (10)
- 3B) Strategies for management of drooling in infants with Hypotonia. (10)
- 3C) Role of Physiotherapy in the assessment and management of a child with Perthe's Disease. (10)
- 3D) Orthotic management in a child with Spina Bifida. (10)
- 4A) Sensory Profile. (5)
- 4B) Kangaroo Mother Care. (5)
- 4C) Persistence of ATNR. (5)
- 4D) Pediatric Evaluation of Disability Inventory. (5)

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## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (OBG) DEGREE EXAMINATION - NOVEMBER/DECEMBER 2021  
SUBJECT: MPT 701.7 - GENERAL IN OBSTETRICS AND GYNECOLOGY  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the acute responses and chronic adaptations of exercises on cardio respiratory systems. (25)  
(13+12 = 25 marks)
- 2) Explain the method of fitness testing of a 19 year old lady who is diagnosed to have Polycystic Ovarian Syndrome. (25)
- 3A) Discuss the maternal, fetal and placental responses to exercises. (10)
- 3B) Explain the various menstrual disorders in adolescent girls. (10)
- 3C) Describe the principles of exercise prescription in postmenopausal women. (10)
- 3D) Discuss the role of Mammography in cancer screening in women. (10)
- 3E) Discuss the ergonomic advice for a young software professional who is diagnosed to have chronic back pain following caesarian section. (10)

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