

Question Paper

Exam Date & Time: 04-Jan-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (CARDIOPULMONARY SCIENCES) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.1 - GENERAL IN CARDIOPULMONARY SCIENCES

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Explain pathophysiology of CKD and its evidence based physiotherapy management.
(10+15 = 25 marks) | (25) |
| 2) | Explain evidence based exercise testing and prescription in metabolic syndrome.
(10+15 = 25 marks) | (25) |
| 3A) | Explain the PT management of cancer pain. | (10) |
| 3B) | Explain PT modalities used in wound healing. | (10) |
| 3C) | Explain the role of physiotherapy in weaning from mechanical ventilator. | (10) |
| 3D) | Explain the role of physiotherapy in prevention and treatment of post-operative pulmonary complications in open abdominal surgery. | (10) |
| 3E) | Universal precautions in ICU. | (10) |

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (NEUROSCIENCES) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.2 - GENERAL IN NEUROSCIENCES

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the theoretical framework Neuro Developmental Therapy (NDT). Describe the basic treatment principles (20) of NDT used in a patient with hemiplegia. (20)
- 2) Explain in detail the assessment and management of spasticity. (20)
- 3A) Describe the principles of Activity dependent plasticity. (10)
- 3B) Explain the late response and add a note on "F wave". (10)
- 3C) Explain in detail the vestibulo-ocular reflex and adaptation exercises. (10)
- 3D) Describe the stoop posture and pathological gait of person with Parkinson's disease. Discuss the treatment strategies for the same. (10)

4. Write a short note on the following:

- 4A) Erb's palsy (5)
- 4B) Rhythmical stabilisation (5)
- 4C) Aphasia (5)
- 4D) Mental imagery (5)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (MUSCULOSKELETAL SCIENCES) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.3 - GENERAL IN MUSCULOSKELETAL SCIENCES

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Discuss the principles and application of taping technique in patellofemoral pain syndrome. | (20) |
| 2) | Discuss the classification, pathophysiology, diagnosis and treatment of Complex regional pain syndrome with a clinical condition. | (20) |
| 3A) | Write in detail about assessment of musculoskeletal fitness. | (10) |
| 3B) | Describe the Physiotherapy management following total knee arthroplasty. | (10) |
| 3C) | Discuss the principles of McKenzie method. | (10) |
| 3D) | Describe the assessment and management of Rheumatoid hand. | (10) |
| 4A) | Movement Diagram. | (5) |
| 4B) | Clinical presentation of Intraneural and extraneural pathology. | (5) |
| 4C) | Zones of flexor tendon injury. | (5) |
| 4D) | Radiographic assessment of Ankle injury. | (5) |

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (COMMUNITY PHYSIOTHERAPY) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.4 - GENERAL IN COMMUNITY PHYSIOTHERAPY

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer

all the questions.

- 1) Explain in detail about workstation analysis. Add a note on the analysis of dental workstation. (25)
(10+15 = 25 marks)
- 2) Explain design of tools and workstation with help of principles of anthropometry. Explain in detail on (25) application of principles of universal design. (10+15 = 25 marks)
- 3A) Explain in detail the importance of industrial safety and labor laws. Add a note on scenario in India (10)
- 3B) Occupational hazards (10)
- 3C) Explain in detail the principles of ergonomics (10)
- 3D) Explain the role of physiotherapist in assessment and management of occupation associated biomechanical risk factors (10)
- 3E) Explain the role of physiotherapist in the prevention of WRMSDs (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (GERIATRICS) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.5 - GENERAL IN GERIATRICS

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Discuss the effect of aging on gait speed and functional mobility with its implications. Discuss the evaluation of functional mobility in elderly. (12+8 = 20 marks) | (20) |
| | Explain the strategies to assess and improve quality of life among older adults. | |
| 2) | Discuss the use of technological solutions for promoting independent living among elderly. | (20) |
| 3A) | Explain the indicators for poor QOL in older adults. | (10) |
| 3B) | Describe fall risk assessment tools. | (10) |
| 3C) | Role of palliative care in end of life. | (10) |
| 3D) | Ergonomics for elderly. | (10) |
| 4A) | Aging work force. | (5) |
| 4B) | Aging with disability. | (5) |
| 4C) | Community centred wellness programs. | (5) |
| 4D) | | (5) |

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (PEDIATRICS) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.6 - GENERAL IN PAEDIATRICS

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer

all the questions.

- 1) Discuss in detail combined neurodevelopmental therapy and sensory integration strategies for 3 year old child with spastic cerebral palsy and gravitational insecurity. (25)
- 2) Discuss in detail fitness testing and prescription in school going children (25)
- 3A) Discuss development, psychometric properties and application of Gross Motor Function Measure (10)
- 3B) Discuss bronchial hygiene therapy in children (10)
- 3C) Observational Gait assessment in children with locomotor disability (10)
- 3D) Discuss role of aquatic therapy in children Downs syndrome (10)
- 3E) Explain any TWO types of Ankle Foot Orthosis (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (OBG) DEGREE EXAMINATION - JANUARY 2021

SUBJECT: MPT 701.7 - GENERAL IN OBSTETRICS AND GYNECOLOGY

(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the Physiotherapy assessment and management of a 40-year old lady who has undergone total abdominal hysterectomy with bilateral salpingo-oophorectomy following large fibroid in the uterus. (20)
(10+10 = 20 marks)
- 2) Explain the screening and role of lifestyle modifications in women diagnosed with Type II Diabetes mellitus. (20)
(5+15 = 20 marks)
- 3A) Discuss the role of TENS for pain management during labour. (10)
- 3B) Discuss the acute effects of exercise on cardiovascular system in pregnancy. (10)
- 3C) Explain the factors to be considered for pre conception health in women. (10)
- 3D) Discuss briefly the investigations for endocrinal disorders in adolescent girls. (10)
- 4A) Elaborate the causes of infertility in women. (5)
- 4B) Discuss the signs and symptoms of pre-eclampsia. (5)
- 4C) Discuss the components of Modified Bishop score. (5)
- 4D) Discuss briefly about female athletic triad. (5)

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