

Question Paper

Exam Date & Time: 12-Dec-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (CARDIOPULMONARY SCIENCES) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.1 - GENERAL IN CARDIOPULMONARY SCIENCES
(2018 SCHEME)
Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss renal rehabilitation in detail. Explain the exercise considerations for patients with peritoneal dialysis. (25)
(20+5 = 25 marks)
- 2) Discuss role of physiotherapy in wound healing. (25)
- 3A) Discuss the mechanism of dyspnea. (10)
- 3B) Write about fatigue assessment and management in cancer. (10)
- 3C) Explain in detail the physiotherapy assessment and management of a patient on mechanical ventilation. (10)
- 3D) Write about the precautions to be taken for a patient with type 1 and type 2 diabetes during exercises. (10)
Discuss the exercise evaluation for these patients.
- 3E) Discuss the physiotherapy management for patients with impaired airway clearance in post-operative conditions. (10)

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THIRD SEMESTER MPT (NEUROSCIENCES) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.2 - GENERAL IN NEUROSCIENCES
(2018 SCHEME)
Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the assumptions, principles of assessment and treatment of Brunnstrom movement therapy. Add a note on the conceptual differences between Brunnstrom movement therapy and Motor Relearning program. (25)
- 2) Explain the instrumentation & procedure for performing electromyography (EMG). Add a note on normal and abnormal potentials recorded using EMG. (15+10 = 25 marks) (25)
- 3A) Classification and physiotherapy management of Obstetric Brachial Plexus Injury. (10)
- 3B) Discuss the assessment methods of spasticity. (10)
- 3C) Describe the principles of gait training in patients with neurological conditions. (10)
- 3D) Explain the principles of management for aquatic therapy in children. (10)
- 3E) Discuss the approaches for treating perceptual disorders. (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (MUSCULOSKELETAL SCIENCES) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.3 - GENERAL IN MUSCULOSKELETAL SCIENCES
(2018 SCHEME)
Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss in detail about the role of physiotherapy in patella-femoral pain syndrome. (25)
- 2) Describe in detail regarding musculoskeletal physiotherapeutic management for a four-year-old child with spastic diplegia. (25)
- 3A) Describe in detail about the types of sacroiliac joint dysfunctions. (10)
- 3B) Discuss the Pathophysiology and clinical manifestations of Complex Regional Pain Syndrome. (10)
- 3C) Discuss Assessment and management of Fibromyalgia. (10)
- 3D) Discuss assessment and management of Hand edema. (10)
- 3E) Discuss the post neurotization rehabilitation in Erb's palsy. (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (COMMUNITY PHYSIOTHERAPY) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.4 - GENERAL IN COMMUNITY PHYSIOTHERAPY
(2018 SCHEME)
Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss in detail about the components of ergonomic evaluation for a packaging industry. (25)
- 2) Explain about various occupational hazards in detail and mention appropriate methods to prevent the adverse events related to its exposure. (25)
(15+10 = 25 marks)
- 3A) Describe about the implementation of worksite wellness programs. (10)
- 3B) Application of anthropometry in design. (10)
- 3C) Outcome measures for occupational risk. (10)
- 3D) Write in brief about occupational biomechanics of lifting. (10)
- 3E) Add a note on the errors related to human information processing. (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (GERIATRICS) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.5 - GENERAL IN GERIATRICS
(2018 SCHEME)
Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) What is aging with disability? Discuss the problems, factors affecting and the role of a physiotherapist in modulating aging with disability. (25)
(4+7+7+7 = 25 marks)
- 2) Discuss about the qualitative, semi quantitative and quantitative outcome measures for assessing chronic pain in elderly. (25)
- 3A) Explain the age related structural and physiological changes in musculoskeletal system. (10)
- 3B) Explain the problems and factors influencing QOL among older adults. (10)
- 3C) Appraise the issues of caregiving to older adults. (10)
- 3D) Elaborate on preparation and decision making in end of life care. (10)
- 3E) Discuss about worksite wellness programs for sedentary aging workers. (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (PEDIATRICS) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.6 - GENERAL IN PAEDIATRICS
(2018 SCHEME)
Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) What is Periventricular leukomalacia (PVL) and its outcome? Discuss the role of early intervention in new born infant with PVL-Grade III admitted in the NICU. (25)
- 2) Discuss exercise testing and prescription in paediatric population. (25)
- 3A) Discuss role of physiotherapy in improving balance in a child with spastic cerebral palsy. (10)
- 3B) Explain the physiotherapy related assessment and management of a child with learning disability. (10)
- 3C) Discuss the assessment and management for a child with brachial plexus injury. (10)
- 3D) Discuss normal development in children aged 6- 12 months. (10)
- 3E) Explain Atrial septal defect and discuss the post-operative physiotherapy management in a one year old child. (10)

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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER MPT (OBG) DEGREE EXAMINATION - DECEMBER 2019
SUBJECT: MPT 701.7 - GENERAL IN OBSTETRICS AND GYNECOLOGY
(2018 SCHEME)

Thursday, December 12, 2019 (14.00 - 17.00)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain in detail about the trimester-wise antenatal investigations with its rationale. Add a note on the non-stress testing during labour and its interpretation. (25)
(20+5 = 25 marks)
- 2) Explain the Physiotherapy assessment and management of a 60 year old lady who has undergone total abdominal hysterectomy with bilateral salpingo-oophrectomy following uterine cancer. (25)
- 3A) Discuss the role of exercise across lifespan of a woman. (10)
- 3B) Discuss the causes of infertility in women. (10)
- 3C) Brief about the guidelines for cervix cancer screening and prevention. (10)
- 3D) Discuss the components of health related physical fitness in adolescent girls. (10)
- 3E) Explain the various disorders of menstruation in women. (10)

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