

Question Paper

Exam Date & Time: 19-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH SEMESTER BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION-JUNE 2024
SUBJECT: PTH4101- THEORETICAL CONCEPTS IN CARDIOPULMONARY PHYSIOTHERAPY - I
(SCHEME 2020)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain the mechanism of Positive Expiratory Pressure devices. Explain with a simple diagram of postural drainage position for a patient who has retained secretions in the bilateral anterior basal and posterior basal segments of lower lobe. Discuss ANY TWO contraindications for postural drainage positions. (20)
(6+10+4 = 20 marks)
- 2) Discuss the physiotherapy management of a patient with type I respiratory failure. Describe the different oxygen delivery systems. Mention ANY TWO complications of oxygen therapy. (20)
(8+10+2 = 20 marks)
- 3) Discuss the consequences of immobility and explain ANY TWO interventions to prevent the consequences of immobility. (10)
(6+4 = 10 marks)
- 4) Classify and explain different types of humidifiers. (10)
- 5A) Explain the interpretation of chest percussion assessment. (5)
- 5B) In an arterial blood gas analysis, pH is 7.32, PaCO₂ is 50 mm of Hg, HCO₃⁻ is 24 mmol/L, PaO₂ is 82 mm Hg. What is the abnormality in this report? List ANY TWO causes of this abnormality. (5)
- 5C) Explain the radiological features seen in a pleural effusion and pneumothorax. (5)
(2½+2½ = 5 marks)
- 5D) Discuss incentive spirometry (5)
- 5E) Discuss the indications and mechanism of intermittent positive pressure breathing (5)
- 5F) Discuss mechanical ventilation weaning criteria (5)
- 6A) List ANY TWO ECG changes in Myocardial infarction (2)
- 6B) Mention the phases of a cough (2)
- 6C) List ANY TWO benefits of prone positioning (2)
- 6D) List the uses of sedative drugs in intensive care units (2)
- 6E) List ANY TWO equipment seen in Neonatal Intensive care unit. (2)

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Question Paper

Exam Date & Time: 20-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH SEMESTER BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION-JUNE 2024
SUBJECT: PTH4102- THEORETICAL CONCEPTS IN COMMUNITY PHYSIOTHERAPY
(SCHEME 2020)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Characterize a fall assessment plan for a 75 years elderly male with multiple co-morbidities residing in an old age home. Add a note on fall prevention for the same. (20)
- 2) Explain the physiotherapy perspectives of community based rehabilitation for a person with musculoskeletal disability. (20)
- 3) Write a note on health related fitness using test batteries in elderly (10)
- 4) Develop the preventive and restorative management of work-related musculoskeletal disorders. (10)
- 5A) Explain the pulmonary changes associated with ageing. (5)
- 5B) Write a note on domains of ergonomics evaluation in occupational health. (5)
- 5C) Outline the ability management in Industrial therapy. (5)
- 5D) Discuss in details about the industrial hazards (5)
- 5E) Explain the functional capacity assessment. (5)
- 5F) Outline the return to work assessment for an industrial worker (42 years male) recovered medically from acute lumbar disc prolapse and whose work involves vertical lifting of 30 pounds weight occasionally in his pre-diseased state (5)
- 6A) Define activity limitation and participation restriction with examples (2)
- 6B) Outline four primary principles of ergonomics (2)
- 6C) Illustrate four roles of clinical psychologist as an industrial team member. (2)
- 6D) Outline the free radical theory of ageing. (2)
- 6E) Define Frailty (2)

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