

Question Paper

Exam Date & Time: 07-Dec-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH SEMESTER BPT DEGREE EXAMINATION - DECEMBER 2023
SUBJECT: PTH4101 - THEORETICAL CONCEPTS IN CARDIOPULMONARY PHYSIOTHERAPY - I
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss the ANY THREE airway clearance devices used in Bronchial Hygiene therapy. Explain normal mucociliary clearance mechanism. (20)
(15+5 = 20 marks)
- 2) Outline the indications for long-term oxygen therapy (LTOT). Discuss the physiotherapy management and precautions to be taken in patients with OP Poisoning. (20)
(5+15 = 20 marks)
- 3) Discuss the postural drainage position for anterior segment of right upper lobe. Explain Indications and contraindications for postural drainage position. (10)
(5+5 = 10 marks)
- 4) Explain Assist-control ventilation and synchronized intermittent mandatory ventilation modes in mechanical ventilation. (10)
- 5A) Explain the different heart sounds. (5)
- 5B) Describe flow volume loop characteristics in obstructive lung diseases. (5)
- 5C) Summarise electrocardiographic features for Myocardial infarction and atrial fibrillation. (5)
- 5D) Explain ANY TWO Neurophysiological facilitation of breathing. (5)
- 5E) Explain types of atelectasis. (5)
- 5F) Discuss the different types of respiratory failure. (5)
- 6A) Mention ANY TWO radiological features in Pulmonary fibrosis. (2)
- 6B) Mention the primary factor that determines the location of the equal pressure point. (2)
- 6C) Mention ANY TWO drugs that has an influence on early mobilization. (2)
- 6D) List the role of respiratory therapist in ICU. (2)
- 6E) Mention ANY TWO physiological differences of the adult and pediatric respiratory system. (2)

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Question Paper

Exam Date & Time: 06-Dec-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SEVENTH SEMESTER BPT DEGREE EXAMINATION - DECEMBER 2023
SUBJECT: PTH4102 - THEORETICAL CONCEPTS IN COMMUNITY PHYSIOTHERAPY
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Explain the restorative and compensatory management strategies of a 65-year-old homemaker diagnosed with rheumatoid arthritis. | (20) |
| 2) | Describe the role of physiotherapists in the management of older adults with low bone density. | (20) |
| 3) | Write in detail on the exercise prescription for older adults. | (10) |
| 4) | Outline the preventive management of work-related musculoskeletal disorders for bank employees. | (10) |
| 5A) | Explain the steps in planning and implementation of CBR programs. | (5) |
| 5B) | Outline the models of disability. | (5) |
| 5C) | Summarize the physiological changes associated with ageing in nervous system. | (5) |
| 5D) | Explain the principles of industrial therapy. | (5) |
| 5E) | Describe the evaluation of ergonomic risk factors. | (5) |
| 5F) | Explain the role of work conditioning and work hardening in return to work. | (5) |
| 6A) | Outline the application of ergonomics in the design of assistive devices. | (2) |
| 6B) | Mention ANY TWO role of physiotherapist in institutionalized older adults. | (2) |
| 6C) | Define Community-Based Rehabilitation. | (2) |
| 6D) | List the genetic theories of ageing. | (2) |
| 6E) | What is an interdisciplinary approach in rehabilitation? | (2) |

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