

## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2020/JANUARY 2021

SUBJECT: PHYSIOTHERAPY IN CARDIOPULMONARY AND GENERAL CONDITIONS  
(2011 & 2015 REGULATION)

Wednesday, January 06, 2021

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer all questions:

## 1. Essay Questions:

- 1A. Define pulmonary rehabilitation. Explain in detail a rehabilitation program for a 55 year old male smoker with bronchiectasis.  
(2+8 = 10 marks)
- 1B. Describe the bronchial hygiene mechanism. Explain in detail any two advanced bronchial hygiene techniques.  
(4+3+3 = 10 marks)

## 2. Short Notes:

- 2A. Physiotherapy management for Tetanus in ICU
- 2B. What is Beurger's disease? Explain its clinical features and physiotherapy management.
- 2C. Explain any 2 techniques of Neurophysiological facilitation of breathing.
- 2D. Guidelines for six minute walk test.
- 2E. Thoracic biomechanics in COPD.
- 2F. Explain the low flow delivery systems in Oxygen therapy.
- 2G. Explain briefly the different modes of mechanical ventilation.
- 2H. Management of a hypergranulated scar.  
(5 marks × 8 = 40 marks)

## 3. Brief Answers:

- 3A. Name any four differences between adult and pediatric respiratory system.
- 3B. Name the types of humidifiers.
- 3C. Enumerate the risk stratification criteria for cardiac rehabilitation.
- 3D. Name any **four** precautions post radical mastectomy.
- 3E. Enlist the contraindications for IPPB.
- 3F. Name any **four** differences between an arterial and a venous ulcer.
- 3G. Define respiratory alkalosis. Name any **two** causes.
- 3H. Give any **four** treatment precautions for head injury in ICU.
- 3I. State Bernoulli's principle.
- 3J. Prescribe any **two** exercises post radical neck dissection.  
(2 marks × 10 = 20 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2020/JANUARY 2021****SUBJECT: COMMUNITY PHYSIOTHERAPY****(2011 & 2015 REGULATION)**

Monday, January 04, 2021

Time: 10:00-13:00 Hrs

Maximum Marks: 80

✍ **Answer ALL questions.****1. Essay questions:**

1A. Discuss community rehabilitation for a patient with post polio syndrome.

1B. Discuss work conditioning and hardening for a manual labor with low back ache

(10 marks × 2 = 20 marks)

**2. Brief Answers:**

2A. Discuss changes in musculoskeletal system with ageing.

2B. Write the Physiotherapy management of urinary incontinence.

2C. Write the Physiotherapy management of Diastasis recti.

2D. Write the exercise prescription guidelines in type II diabetes mellitus.

2E. Discuss about the agencies involved in CBR.

2F. Explain various occupational hazards.

2G. Write the barrier modification for a child with Spastic diplegia in primary school.

2H. Discuss principles of ergonomics evaluation.

(5 marks × 8 = 40 marks)

**3. Short Answers:**

3A. Write any two roles of a social worker.

3B. Write any two complications during Post partum period.

3C. Define job analysis.

3D. Mention any four benefits of institution based management for elderly.

3E. Write the Percentage calculation formula for disability evaluation in upper limb.

3F. Explain any one theory of ageing.

3G. Write any two Principles of exercise prescription in postmenopausal women.

3H. Write the rehabilitation team members.

3I. Define early intervention.

3J. Define community based rehabilitation

(2 marks × 10 = 20 marks)

