

**MANIPAL ACADEMY OF HIGHER EDUCATION**

(Deemed University)

**FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2005****SUBJECT: GENERAL MEDICINE**

Wednesday, June 22, 2005

Time available: 3 Hours

Maximum Marks: 80

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**❖ Answer all questions.**

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1. What is chronic corpulmonale? Discuss about chronic obstructive pulmonary disease (COPD).

(1+9 = 10 marks)

2. What is Cirrhosis of liver? Discuss aetiopathogenesis, complications, clinical features and management of cirrhosis of liver.

(1+2+3+2+2 = 10 marks)

3. Write Short notes on **any SIX** of the following:

3A. Aortic regurgitation.

3B. Heart failure.

3C. Food poisoning.

3D. Diabetic ketoacidosis.

3E. Megaloblastic anaemia.

3F. Opportunistic infection in A.I.D.S.

3G. Organophosphorous compound poisoning.

3H. Hyercalcemia.

(5×6 = 30 marks)

4. Write short notes on **any SIX** of the following:

4A. Lung abscess.

4B. Ankylostomiasis.

4C. Immune thrombocytopenic purpura (I.T.P.)

4D. Acute Rheumatic fever.

4E. Hyperkalaemia.

4F. Cushings syndrome.

4G. Protein Energy Malnutrition (PEM).

4H. Pyrexia of unknown origin (PUO).

(5×6 = 30 marks)



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**FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2005****SUBJECT: GENERAL SURGERY**

Thursday, June 23, 2005

Time available: 3 Hours

Maximum Marks: 80

✍ Answer Section "A" and Section "B" in TWO Separate Answer Books.

**SECTION "A" – CARDIOVASCULAR AND THORACIC SURGERY: 40 MARKS**

1. What are the indications for coronary artery bypass grafting? Name the different conduits used for bypass. Mention the advantages of arterial conduits. (10 marks)
2. Discuss the aetiology, diagnosis and management of Bronchiectasis. (10 marks)
3. Write short notes on any **TWO**:
  - 3A. Lung volumes.
  - 3B. Cyanotic spell.
  - 3C. Flail chest.

(10×2 = 20 marks)

**SECTION "B": GENERAL SURGERY: 40 MARKS**

4. Discuss indications for blood transfusion. Write a note on massive blood transfusion. (10 marks)
5. Write a note on Total Body Water and distribution of body water. Discuss briefly the condition of water excess. (10 marks)
6. Write short notes for any **FOUR** of the following:
  - 6A. Complications of blood transfusion.
  - 6B. Classify hemorrhage.
  - 6C. Hypovolemic shock.
  - 6D. Complications of wound healing.
  - 6E. Assessment of depth of burns.

(5×4 = 20 marks)



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## FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2005

**SUBJECT: SOCIOLOGY**

Friday, June 24, 2005

Time available: 1½ Hours

Maximum Marks: 40

**Answer ALL questions.**

- 1A. What is culture lag? What are the consequences of culture lag on Society and health?
- 1B. Explain with examples how beliefs influence health and illness.
- 1C. Explain the role of horizontal causality as risks causing disease.

(10+10+10 = 30 marks)

2. Write short notes on the following:

- 2A. Causes of juvenile delinquency.
- 2B. Rehabilitation of Alcoholics.

(5×2 = 10 marks)





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**FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2005****SUBJECT: PHYSIOTHERAPY IN GENERAL CONDITIONS**

Monday, June 27, 2005

Time available: 3 Hours

Maximum Marks: 80

**Answer ALL questions.**

1. Define chronic obstructive pulmonary disease. List out the clinical features. Discuss pulmonary rehabilitation programme for a 50 year old smoker with chronic obstructive pulmonary disease.  
(1+2+7 = 10 marks)
2. Define cardiac rehabilitation. Discuss the cardiac rehabilitation programme for a 40 year old woman who has undergone mitral valve replacement.  
(1+9 = 10 marks)
3. Short notes:
  - 3A. Write on anatomical and biomechanical differences in respiratory system of a neonate.
  - 3B. Write on indications, contraindications and termination criteria for treadmill test.
  - 3C. Discuss indications, contraindications and uses of pulmonary function test.
  - 3D. Discuss the postoperative physiotherapy management for abdominal surgeries.
  - 3E. Discuss the physiotherapy protocol following split skin grafting over dorsum of hand for a deep burn.
  - 3F. Discuss indications, contraindications and hazards of oxygen therapy.
  - 3G. Draw a neat diagram and position for postural drainage for the following segments:
    - i) Right lower lobe medial segment
    - ii) Left lower lobe posterior segment.
  - 3H. Discuss the action of mucolytics and explain briefly different types of mucolytics.  
(5×8 = 40 marks)
4. Brief questions:
  - 4A. Draw schematic diagram of anterior view of lungs.
  - 4B. What is zone of apposition? Write the importance of the same in chronic obstructive pulmonary disease.
  - 4C. Write on origin and branches of coronary arteries.
  - 4D. Phases of coughing and huffing.
  - 4E. What is CPAP?
  - 4F. Write the different PNF techniques for facilitating breathing.
  - 4G. Define ARDS.
  - 4H. What is emphyema?
  - 4I. What are the different types of airways used in intensive care units?
  - 4J. What are the different types of percussion techniques for infants?  
(2×10 = 20 marks)



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**FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2005****SUBJECT: PHYSIOTHERAPY IN COMMUNITY**

Tuesday, June 28, 2005

Time available: 3 Hours

Maximum Marks: 80

✍ **Answer ALL questions.**

1. What are the physiological changes and adaptations to exercise in aged?  
(10 marks)
2. Discuss in detail physiotherapy management in Diabetes Mellitus.  
(10 marks)
3. Short notes:
  - 3A. Compare and contrast work hardening and work conditioning.
  - 3B. Physiotherapy management in diastasis recti abdominis.
  - 3C. What are ideal floor, door and ramp modification needed for a wheel chair bound D6 paraplegic?
  - 3D. What are the circulatory adjustments during exercise in hot environment?
  - 3E. Name any two agencies involved in rehabilitation of physically handicapped and write in brief their functions.
  - 3F. Kegels' exercise.
  - 3G. Name any 10 causes for high risk infants.
  - 3H. Carbohydrate diet in sports.  
(5×8 = 40 marks)
4. Brief questions:
  - 4A. List any four absolute contraindications to vigorous exercise in pregnancy.
  - 4B. Clinical feature of meralgia paraesthetica.
  - 4C. What is Body Mass Index?
  - 4D. Name any four theories of aging.
  - 4E. Ideal material lifting and carrying techniques.
  - 4F. Physiotherapy management in pelvic inflammatory disease.
  - 4G. What is the carbohydrate supplement during aerobic sports?
  - 4H. Mention four organic occupational hazards of respiratory system with their causes.
  - 4I. Mention any four functions of social worker.
  - 4J. Mention two PT management of tremors.  
(2×10 = 20 marks)





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**FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2005****SUBJECT: PHYSIOTHERAPY IN FUNCTIONAL DIAGNOSIS**

Wednesday, June 29, 2005

Time available: 3 Hours

Maximum Marks: 80

✍ Answer both section – A and section – B in same answer book.

✍ Answer all questions

**SECTION – A : ELECTROPHYSIOLOGY: 40 MARKS**

1. Explain the procedure for sensory nerve conduction study of the ulnar nerve. Mention three draw back of nerve conduction study.

(7+3 = 10 marks)

2. Short notes:

2A. Muscle Spindle.

2B. EMG Biofeed Back.

2C. Blink Reflex.

2D. Physiological properties of Muscle.

(5×4 = 20 marks)

3. Brief notes:

3A. Role of Filter.

3B. F wave.

3C. Motor Unit.

3D. Muscle fiber.

3E. Rheobase.

(2×5 = 10 marks)

**SECTION – B: EXERCISE PHYSIOLOGY: 40 MARKS**

4. What are the acute and chronic effects of exercise on Cardiovascular systems. Write on Oxygen Debt.

(6+4 = 10 marks)

5. Short note:

5A. Microgravity.

5B. Circuit Training.

5C. Onset of Blood Lactate Accumulation.

5D. Anabolic Steroids.

(5×4 = 20 marks)

6. Brief notes on following:

6A. Define Power.

6B. Define Vo<sub>2</sub> Max.

6C. Two Musculoskeletal complications of Elderly.

6D. Blood Dopping.

6E. Cardiovascular Drift.

(2×5 = 10 marks)

