

MANIPAL UNIVERSITY**FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2007****SUBJECT: GENERAL SURGERY
(OLD REGULATION)**

Tuesday, December 11, 2007

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. Discuss the aetiology and management of Tension pneumothorax. Mention the role of intercostal chest tube.
(10 marks)
2. Describe the anatomy of coronary arteries and discuss the risk factors in coronary artery disease.
(10 marks)
3. Write short notes on any **TWO**:
 - 3A. Mechanisms of normal respiration.
 - 3B. Indications for bronchoscopy.
 - 3C. Ventricular septal defect.
 (10×2 = 20 marks)

SECTION "B" : GENERAL SURGERY : 40 MARKS

4. How do you assess extent and depth of burns? Discuss briefly fluid management in 70kg patient with 30% burns.
(10 marks)
5. Indications for blood transfusion. What are the complications of blood transfusion and how do you manage them?
(10 marks)
6. Write short notes on any **FOUR**.
(4×5 = 20 marks)
 - 6A. Local factors affecting wound healing
 - 6B. Colostomy Care
 - 6C. Hyponatremia
 - 6D. Factors which initiate metabolic response of the body to Surgical Stress
 - 6E. Changes in stored blood.



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: SOCIOLOGY
(OLD REGULATION)

Wednesday, December 12, 2007

Time available: 1½ Hours

Maximum Marks: 40

✍ **Answer the following questions.**

1. Define sociology. Explain its importance in physiotherapy or in occupational therapy.
(10 marks)
2. Define 'culture'. Bring out its importance in health and disease.
(10 marks)
3. What is a family? Explain the role of family in human health.
(10 marks)
4. Write short note on the following:
 - 4A. Socialization
 - 4B. Social security measures

(5×2 = 10 marks)



MANIPAL UNIVERSITY**FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2007****SUBJECT: PHYSIOTHERAPY IN GENERAL CONDITIONS
(OLD REGULATION)**

Thursday, December 13, 2007

Time available: 3 Hours

Maximum Marks: 80

✍ **Answer ALL questions.**

1. Describe the pathogenesis/pathophysiology of Chronic obstructive pulmonary diseases (COPD). Describe the Physiotherapy management of COPD with Rationale. (10 marks)
2. Define peripheral arterial obstructive diseases (PAOD). Describe in detail the Physiotherapy management of PAOD. (10 marks)
3. Short notes: (5×8 = 40 marks)
 - 3A. Write short notes on Strength training in Coronary artery disease patients.
 - 3B. Describe about Passive Humidifiers.
 - 3C. Autogenic drainage.
 - 3D. Mention any two relaxed positions to reduce Work of Breathing (WOB) in Acute asthma patients. Describe the physiology of relaxation, how does it reduce the WOB?
 - 3E. Rationale for early Mobilization.
 - 3F. Shuttle walk test.
 - 3G. Continuous positive airways pressure. (CPAP)
 - 3H. Weaning from tracheostomy.
4. Brief notes (2×10 = 20 marks)
 - 4A. ABI
 - 4B. Shamroth's sign.
 - 4C. Mention two advantages of Incentive spirometry.
 - 4D. Mention four neurophysiologic facilitation techniques.
 - 4E. Mention the collateral channels in human adult lung.
 - 4F. Silhouettes sign.
 - 4G. ABG findings in Acute respiratory acidosis.
 - 4H. Intrinsic PEEP.
 - 4I. Opening snap.



MANIPAL UNIVERSITY
FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2007
SUBJECT: PHYSIOTHERAPY IN COMMUNITY
(OLD REGULATION)

Friday, December 14, 2007

Time available: 3 Hours

Maximum Marks: 80

1. Answer ALL questions
- 1A. Physiotherapy following caesarian section delivery.
- 1B. Describe in detail phases of sport rehabilitation.

(10×2 = 20 marks)

2. Short Notes:

- 2A. Exercises for diabetes mellitus and its rationale.
- 2B. Various agencies involved in Community based Rehabilitation for physically handicapped.
- 2C. Physiotherapy for a patient with degenerative arthritis.
- 2D. Antenatal exercise program.
- 2E. Ergonomic advice for a surgeon.
- 2F. Blood doping.
- 2G. Thermal influence on sport performance.
- 2H. Common musculoskeletal injuries in football.

(5 × 8 = 40 marks)

3. Brief Answers:

- 3A. Define impairment.
- 3B. What is agility?
- 3C. What is spastic bladder?
- 3D. What is plyometrics?
- 3E. What are the common sites for stress fracture?
- 3F. What is work conditioning?
- 3G. Enumerate the cardinal signs of Parkinson's disease.
- 3H. What is eclampsia?
- 3I. What is anaerobic threshold?
- 3J. Define disability.

(2 × 10 = 20 marks)



MANIPAL UNIVERSITY
FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2007
SUBJECT: PHYSIOTHERAPY IN FUNCTIONAL DIAGNOSIS
(OLD REGULATION)
 Saturday, December 15, 2007

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

✍ Essay

1. Classify nerve injuries. What are the electro diagnostic findings in a neuropraxic lesion?
 (2+8 = 10 marks)

✍ Short notes

(5×4 = 20 marks)

- 2A. Motor unit profile.
 2B. Advantages of Nerve Conduction Study over Strength Duration curve.
 2C. H – Reflex.
 2D. Resting Membrane Potential and generation of action potential.

✍ Brief questions

(2×5 = 10 marks)

- 3A. Define motor unit.
 3B. Mention the EMG findings in myotonic disorders.
 3C. Name any two tests for neuromuscular junction pathology?
 3D. What is a Reference electrode?
 3E. Mention the placement of electrodes for sural nerve conduction velocity study?

SECTION – B – EXERCISE PHYSIOLOGY – 40 Marks

✍ Essay

4. Explain in detail the acute effects of exercise on the various systems.
 (10 marks)

✍ Short notes

(4×5 = 20 marks)

- 5A. Discuss briefly the components of fitness.
 5B. What are the factors that affect energy expenditure?
 5C. Discuss the clinical problems on acute exposure to altitude.
 5D. What are the Causes of fatigue?

✍ Brief questions

(5×2 = 10 marks)

- 6A. Define Delayed Onset of Muscle Soreness.
 6B. What is Periodization?
 6C. What is Carbohydrate?
 6D. What is Lactate Threshold?
 6E. Define Heat Stroke.

