

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2006**SUBJECT: GENERAL MEDICINE****(OLD REGULATION)**

Wednesday, December 13, 2006

Time available: 3 Hours

Maximum Marks: 80

✍ Answer ALL questions.

1. Define Angina Pectoris. Discuss the risk factors, clinical features and management of Ischemic Heart Disease (IHD).

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

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

- 2A. Neurological complications of Diabetes Mellitus.
- 2B. Cushing's Syndrome.
- 2C. Acute Leukemias.
- 2D. Pleural Effusion.
- 2E. Hyponatraemia.
- 2F. Pyrexia of Unknown Origin (PUO).
- 2G. Clinical features of Chronic Renal failure.
- 2H. Complications of radiotherapy.

(5×6 = 30 marks)

3. Define Cirrhosis of Liver. Discuss the aetiology and complications with special reference to Hepatic coma.

(2+3+5 = 10 marks)

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

- 4A. Malaria.
- 4B. Lung abscess.
- 4C. Hodgkin's Disease.
- 4D. Snake bite.
- 4E. Pulmonary Function Tests.
- 4F. Drugs used in management of Hypertension.
- 4G. Megaloblastic anaemia.

(5×6 = 30 marks)



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2006**SUBJECT: GENERAL SURGERY
(OLD REGULATION)**

Thursday, December 14, 2006

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 intercostal chest tube drainage? Mention the precautions to be taken in a patient with intercostal chest tube with under water seal drainage. (10 marks)
2. Discuss the risk factors for coronary artery disease and name the different arterial conduits for coronary artery bypass surgery. (10 marks)
3. Write short notes on any **TWO**:
 - 3A. Physiological changes in the remaining lung after pneumonectomy.
 - 3B. Atrial septal defect.
 - 3C. Postoperative care in a patient with thorocoplasty.(10×2 = 20 marks)

SECTION "B": GENERAL SURGERY: 40 MARKS

4. Classify burns. How do you assess extent of burn injury? (10 marks)
5. Define Ulcer. Classify ulcers with examples. Write a note on trophic ulcer. (10 marks)
6. Write short notes on any **FOUR**.
 - 6A. Define shock. Write a note on cardiogenic shock.
 - 6B. Complications of hernia repair.
 - 6C. Classify wounds with examples.
 - 6D. Indications for blood transfusion and components transfusion.
 - 6E. Full thickness skin graft.(5×4 = 20 marks)



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2006

**SUBJECT: SOCIOLOGY
(OLD REGULATION)**

Friday, December 15, 2006

Time available: 1½ Hours

Maximum Marks: 40

✍ Answer **ALL** the questions.

- 1A. Describe the causes and consequences of population explosion.
- 1B. What is culture lag? What are the consequences of culture lag on society and health?
- 1C. Explain how caste has influence on health.

(10+10+10 = 30 marks)

2. Write short notes on the following:

- 2A. Problems of employed women.
- 2B. Social security.

(5×2 = 10 marks)



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2006**SUBJECT: PHYSIOTHERAPY IN GENERAL CONDITIONS
(OLD REGULATION)**

Saturday, December 16, 2006

Time available: 3 Hours

Maximum Marks: 80

✍ **Answer ALL questions.**

1. Discuss the preoperative and postoperative physiotherapy management following CABG. Explain the role of Phase III cardiac rehabilitation for CABG patients. (6+4 = 10 marks)
2. Discuss the pulmonary rehabilitation programme for 45 year old male with history of 20 year of smoking, diagnosed as having COPD. (10 marks)
3. Short notes:
 - 3A. Discuss the central and peripheral regulation of respiration. (5 marks)
 - 3B. Write on indications for PFT. Enumerate the role of PFT in respiratory muscle training. (5 marks)
 - 3C. Discuss the auscultatory and percussion findings in respiratory disorders. (2½+2½ = 5 marks)
 - 3D. Define lung abscess. Discuss the clinical features of lung abscess. (5 marks)
 - 3E. Discuss the role of physiotherapy in anterolateral thoracotomy. (5 marks)
 - 3F. What is mechanical ventilation? Discuss the uses of different modes of mechanical ventilation. (1+4 = 5 marks)
 - 3G. Write on role of physiotherapy in bilateral lower lobe bronchiectasis. Add a note on home programme. (4+1 = 5 marks)
 - 3H. Role of physiotherapy following upper abdominal surgery. (5 marks)
4. Brief notes:
 - 4A. Write on branches of tracheobroncheal tree.
 - 4B. What is metabolic equivalent?
 - 4C. Write on respiratory alkalosis.
 - 4D. Define auto PEEP.
 - 4E. What is CPAP?
 - 4F. Draw anterior and posterior view of left lung.
 - 4G. Write down postural drainage position with a neat diagram for posterior segment of right lower lobe.
 - 4H. Mention the use of flow resistor in chest physical therapy.
 - 4I. Indications for use of manual hyperinflation unit during chest physical therapy.
 - 4J. Mention four radiological features of COPD. (2×10 = 20 marks)



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2006**SUBJECT: PHYSIOTHERAPY IN COMMUNITY****(OLD REGULATION)**

Monday, December 18, 2006

Time available: 3 Hours

Maximum Marks: 80

1. Answer **ALL** questions:

1A. Describe in detail the various physiologic changes associated with aging.

1B. Describe in detail the fitness tests done to measure the aerobic and anaerobic capacity.

(10×2 = 20 marks)

2. Short notes:

2A. Disability evaluation.

2B. Rehabilitation of a patient with incontinence.

2C. Role of family members in rehabilitation.

2D. Role of multipurpose health worker.

2E. Common musculoskeletal injuries in basketball.

2F. Management of diastasis recti.

2G. Discuss work hardening and work conditioning.

2H. Ergonomic advice to a nurse.

(5×8 = 40 marks)

3. Brief answers:

3A. Define handicap.

3B. Mention the modifiable risk factors for osteoporosis.

3C. Risk factors of hypertension.

3D. Define power.

3E. What is upper crossed syndrome?

3F. What is heat exhaustion?

3G. What is glycogen loading?

3H. What are the components of work hardening?

3I. Define VO₂ max.

3J. Flaccid bladder.

(2×10 = 20 marks)



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2006**SUBJECT: PHYSIOTHERAPY IN FUNCTIONAL DIAGNOSIS
(OLD REGULATION)**

Tuesday, December 19, 2006

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. Discuss the stages of EMG examination and briefly discuss about the normal muscle findings.
(4+6 = 10 marks)
2. Short notes:
 - 2A. EMG Biofeedback.
 - 2B. Factors affecting the nerve conduction study.
 - 2C. Characteristics of motor unit.
 - 2D. Enumerate the type of electrodes used in electro diagnosis.
3. Short questions:
 - 3A. Significance of measuring the amplitude of the potential in nerve conduction study.
 - 3B. What is Polyphasia?
 - 3C. NCV finding in diabetic neuropathy.
 - 3D. What is Gain?
 - 3E. EMG findings of early reinnervation.

(5×4 = 20 marks)

(2×5 = 10 marks)

SECTION – B – EXERCISE PHYSIOLOGY – 40 Marks

4. Discuss Ergogenic Aids and their role in performance.
(10 marks)
5. Short notes:
 - 5A. Exercise prescription.
 - 5B. Cardiovascular changes with aging.
 - 5C. Water balance during exercise.
 - 5D. Health risks during exercise in Cold.
6. Brief answers:
 - 6A. What is Cross training?
 - 6B. What is Anaerobic Threshold?
 - 6C. What is Valsalva Maneuver?
 - 6D. What is Plyometrics?
 - 6E. Fats.

(5×4 = 20 marks)

(2×5 = 10 marks)

