

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

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

Monday, December 19, 2005

Time available: 3 Hours

Maximum Marks: 80

Answer all questions.

1. List the causes of hypertension. Discuss the clinical features, investigations and complications of hypertension.

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

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

(5 × 6 = 30 marks)

- 2A. Causes and clinical features of hyperparathyroidism.
2B. Management of hepatic encephalopathy.
2C. Clinical features and treatment of Iron deficiency anemia.
2D. Helicobacter pylori infection.
2E. Management of Lung abscess.
2F. Cholera.
2G. Causes and treatment of Syndrome of Inappropriate ADH secretion (SIADH).
2H. Viper snake bite.

3. Discuss the causes, clinical features and management of Hypothyroidism.

(10 marks)

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

(5×6 = 30 marks)

- 4A. Causes and clinical features of bronchiectasis.
4B. Management of Leprosy.
4C. Clinical features and treatment of post streptococcal glomerulonephritis.
4D. Osteomalacia.
4E. List the predisposing factors and clinical features of infective endocarditis.
4F. Clinical features of chronic myeloid leukemia.
4G. Respiratory failure.
4H. Management of chronic renal failure.



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

Tuesday, December 20, 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. Discuss the aetiology and management of lung abscess. (10 marks)
2. Name four acyanotic heart diseases and give a brief description of any one of them. (10 marks)
3. Write short notes on any **TWO**:
 - 3A. Bronchopulmonary segment.
 - 3B. Arterial supply of the heart.
 - 3C. Intercostal chest drainage.(10×2 = 20 marks)

SECTION "B": GENERAL SURGERY: 40 MARKS

4. Define hernia. What are the types of hernia? Write a note on management of indirect inguinal hernia. (10 marks)
5. Classify shock. Discuss hypovolemic shock. (10 marks)
6. Write short notes on any **FOUR**. (5×4 = 20 marks)
 - 6A. Factors affecting wound healing.
 - 6B. Hypokalemia.
 - 6C. Post operative complications of cholecystectomy.
 - 6D. Fluid resuscitation in burns.
 - 6E. Management of infected wound.



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FOURTH YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: SOCIOLOGY

Wednesday, December 21, 2005

Time available: 1½ Hours

Maximum Marks: 40

✍ Answer ALL questions.

- 1A. Explain the means of social control.
- 1B. Define caste and explain its characteristic features.
- 1C. Explain the health problems of rural and urban communities.

(10+10+10 = 30 marks)

2. Write short notes on the following:

(5×2= 10 marks)

- 2A. Oral stage and Oedipus stage of socialization.
- 2B. Social support network and health.



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

Thursday, December 22, 2005

Time available: 3 Hours

Maximum Marks: 80

✍ Answer ALL questions.

1. Write the postoperative Physiotherapy management following Pneumonectomy. (10 marks)
2. Discuss the physiotherapy management of peripheral arterial disease. (10 marks)
3. Short notes: (5×8 = 40 marks)
 - 3A. Trachestomy Care.
 - 3B. Guidelines for oxygen therapy.
 - 3C. Physiotherapy management for Hypertrophic Scar.
 - 3D. Role of PT following radical Mastectomy.
 - 3E. PT management of Tetanus.
 - 3F. Guidelines for exercise Prescription Phase II Cardiac Rehabilitation.
 - 3G. Respiratory care in Head Injury patients.
 - 3H. Indication for Clinical Exercise Testing.
4. Brief notes: (2×10 = 20 marks)
 - 4A. Define Pulmonary Rehabilitation.
 - 4B. Respiratory Acidosis.
 - 4C. PFT finding of Obstructive Pulmonary Conditions.
 - 4D. Radiological Finding of Pleural Effusion.
 - 4E. Define Cardiac rehabilitation.
 - 4F. Two features of Bronchial Breath Sounds.
 - 4G. Two Clinical Features of Peripheral Arterial Disease.
 - 4H. Define COPD.
 - 4I. Ankle Brachial Index.
 - 4J. Body Mass Index.



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

Friday, December 23, 2005

Time available: 3 Hours

Maximum Marks: 80

Answer ALL questions.

1. Mention the hazards in hydraulic drilling machine. Plan out management for the prevention and treatment of the occupational hazards for persons working with the same. (10 marks)
2. Mention the theories of ageing. Describe in detail the changes in Cardiovascular system, Musculoskeletal system and Thermoregulatory system with aging. (10 marks)
3. Short notes: (5×8 = 40 marks)
 - 3A. Energy expenditure for any ten functional activities.
 - 3B. Back care for household activities.
 - 3C. Physiological basis for exercises following Menopause.
 - 3D. General principles in sports rehabilitation.
 - 3E. Brief out five laws governing the benefits of Physically disabled in the society.
 - 3F. Describe the energy transfer mechanisms in the body.
 - 3G. Describe the physiotherapy Management in stress incontinence.
 - 3H. Describe the exercise training in Obesity.
4. Brief notes: (2×10 = 20 marks)
 - 4A. Any four complications of prolonged bed rest.
 - 4B. Physiotherapy modalities for pelvic floor inflammatory diseases.
 - 4C. Four hazards involved with occupational stress.
 - 4D. Mention the adverse effects of physical aids used to improve physical performance.
 - 4E. Any four changes in respiratory system with ageing.
 - 4F. Define VO_{2MAX}
 - 4G. Energy value of any four food constituents.
 - 4H. Any four architectural specification for corridor in shopping mall.
 - 4I. WHO classification of physical disability.
 - 4J. Sports drink.



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

Monday, December 26, 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 in detail about the analyses of motor nerve conduction of the radial nerve. Mention the advantages and disadvantages of NCu over EMG. (7+3 = 10 marks)
2. Short notes: (5×4 = 20 marks)
 - 2A. Physiological properties of muscle. Mention the disorders affecting the muscle.
 - 2B. Discuss the variables affecting the nerve conduction study.
 - 2C. Describe the technique of strength duration curve. Add a note on Interpretation.
 - 2D. F wave.
3. Brief notes: (2×5 = 10 marks)
 - 3A. Define Myokymic discharges.
 - 3B. Define blink reflex and write components.
 - 3C. List the role of amplifiers and filters.
 - 3D. Write down four principles of motor nerve conduction.
 - 3E. Draw a neat diagram showing the electromyography technique for adductor digiti minimi

SECTION – B: EXERCISE PHYSIOLOGY: 40 MARKS

4. Discuss the methods to assess the body composition. Write on acute and chronic effect of exercise on body composition. (5+5 = 10 marks)
5. Short notes: (5×4 = 20 marks)
 - 5A. Define exercise testing. Describe Balke and Bruce protocol for treadmill test.
 - 5B. Discuss the physiotherapy management for a 6 year old child with obesity.
 - 5C. Discuss the principles of aerobic training.
 - 5D. Define fatigue and write down the management for the same.
6. Brief Notes: (2×5 = 10 marks)
 - 6A. Name four synthetic/artificial ergogenic aids.
 - 6B. Name four diseases of elderly.
 - 6C. Write on four benefits of exercise in pregnancy.
 - 6D. Name two complications of post menopausal women.
 - 6E. Define strength.

