

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2006**SUBJECT: PATHOLOGY AND MICROBIOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Wednesday, June 07, 2006

Time: 3 Hrs.

Max. Marks: 80

- ✗ Answer section A and section B in TWO separate answer books.
✗ Draw labelled diagrams wherever appropriate.

SECTION 'A': PATHOLOGY: 40 MARKS

1. Define necrosis. Mention the types of necrosis with examples. (2+6 = 8 marks)
2. Define and classify anemia. Describe the clinical features of Iron deficiency anemia. (2+3+2 = 7 marks)
3. Write short notes on any FIVE. (5×5 = 25 marks).
 - 3A. Complications of atherosclerosis.
 - 3B. Scurvy.
 - 3C. Goiter.
 - 3D. Clinical features of CNS tumours.
 - 3E. Rheumatoid arthritis.
 - 3F. Basal cell carcinoma.

SECTION 'B': MICROBIOLOGY: 40 MARKS

4. Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis. Add a note on BCG. (3+3+2 = 8 marks)
5. Enumerate the organisms causing meningitis. Describe the laboratory diagnosis of pneumococcal meningitis. (3+4 = 7 marks)
6. Write short notes on any FIVE.
 - 6A. Louis Pasteur.
 - 6B. Candidiasis.
 - 6C. Prophylaxis of rabies.
 - 6D. Type III hypersensitivity.
 - 6E. Sterilisation by filtration.
 - 6F. Laboratory diagnosis of HIV infection. (5×5 = 25 marks)



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SECOND YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2006**SUBJECT: PHARMACOLOGY
(COMMON FOR BOTH OLD & NEW REGULATIONS)**

Thursday, June 08, 2006

Time: 1½ Hrs.

Max. Marks: 40

1. Enumerate four classes of antithyroid drugs with examples. (5 marks)

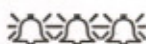
2. Give the pharmacological basis for the following:
 - 2A. The use of digoxin in congestive cardiac failure.
 - 2B. Combination of drugs in tuberculosis.
 - 2C. Why corticosteroids should not be stopped abruptly? (2×3 = 6 marks)

- 3A. Enumerate different routes of drug administration with one drug given by each route.
- 3B. List advantages and disadvantages of topical route of drug administration. (4½+1½ = 6 marks)

- 4A. List four groups of NSAIDs with two examples for each group.
- 4B. Why morphine should not be used in head injury? (4+2 = 6 marks)

5. Write briefly on:
 - 5A. Adverse effects of anticancer drugs
 - 5B. Preparations of iron
 - 5C. Local anaesthetics
 - 5D. Teratogenicity. (2×4 = 8 marks)

6. Give two examples and two uses of the following groups of drugs:
 - 6A. β blockers
 - 6B. Aminoglycosides
 - 6C. Skeletal muscle relaxants
 - 6D. Beta lactam antibiotics
 - 6E. Antiepileptics
 - 6F. Hypnotics
 - 6G. Anticoagulants
 - 6H. ACE inhibitors
 - 6I. Loop diuretics. (1×9 = 9 marks)



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SECOND YEAR B.P.T. DEGREE EXAMINATION – JUNE 2006**SUBJECT: EXERCISE THERAPY II****(NEW REGULATION)**

Friday, June 09, 2006

Time: 3 hrs.

Max. Marks: 80

✍ **Answer ALL questions. Illustrate with clear diagrams wherever applicable.**

1. Explain the phases of scapulohumeral rhythm. What are the uses of it?
(8+2 = 10 marks)
2. Write the principles of PNF. Explain the method and uses of hold-relax technique.
(5+3+2 = 10 marks)
3. Write brief answers:
 - 3A. Describe the indications and contraindications for spinal traction.
 - 3B. Describe the method of postural drainage for the right upper lobe.
 - 3C. Write on the temporal and spatial parameters of gait.
 - 3D. Mention the principles of Frenkle's exercises.
 - 3E. Mention the causes for limitation in joint range of motion.
 - 3F. Effect and uses of stretching.
 - 3G. Mention the types of prehension in hand.
 - 3H. Explain the role of abdominal muscles on trunk stability.
(5×8 = 40 marks)
4. Short answers:
 - 4A. What is Q angle?
 - 4B. What is 10 RM?
 - 4C. Mention the uses of pursed lip breathing.
 - 4D. Mention the uses of bridging.
 - 4E. Mention the types of normal lung sounds.
 - 4F. What are the disadvantages of using a walker?
 - 4G. Define normal posture.
 - 4H. What are trick movements?
 - 4I. What is the subtalar neutral?
 - 4J. What is ataxia?
(2×10 = 20 marks)



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SECOND YEAR B.P.T. DEGREE EXAMINATION – JUNE 2006**SUBJECT: ELECTROTHERAPY****(NEW REGULATION)**

Saturday, June 10, 2006

Time: 3 Hrs.

Max. Marks: 80

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

1A. Classify nerve injuries. Describe in detail the characteristics of SD curve in partially denervated muscle.

(3+7 = 10 marks)

1B. Define Short Wave Diathermy (SWD). Describe in detail the capacitance technique of application of SWD. Add a note on treatment parameters of Pulsed SWD.

(2+5+3 = 10 marks)

2. Short notes:

(5×8 = 40 marks)

2A. High TENS and its pain modulation mechanism.

2B. Various forms of Biofeedback for control of motor activity.

2C. Earth shock and its preventive measures.

2D. Mention the parameters of therapeutic LASER. Describe the therapeutic effects of LASER.

2E. Non thermal effects of ultrasound on body tissues.

2F. Treatment of pressure sores with ultraviolet radiation.

2G. Describe the principles of production of IRR. Mention the sources of therapeutic IRR. Add a note on behavior of IRR on body tissues.

2H. Advantages and disadvantages paraffin wax therapy.

3. Brief answers:

(2×10 = 20 marks)

3A. Cosine Law.

3B. Latent heat and its application.

3C. Iontophoresis and give one example.

3D. Mention the characteristics of LASER.

3E. Unstable cavitation and its implications.

3F. Capacitor.

3G. Inverse square law.

3H. Piezoelectric effect.

3I. Coupling medium.

3J. Mention the techniques of applications of cryotherapy.



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SECOND YEAR B.P.T. DEGREE EXAMINATION – JUNE 2006**SUBJECT: PSYCHOLOGY**

(NEW REGULATION)

Monday, June 12, 2006

Time: 3 Hrs.

Max. Marks: 80

- ✍ Answer any **FOUR** questions from Section 'A' and any **FOUR** questions from Section 'B'.
✍ All questions carry equal marks.

SECTION – A

1. Compare and contrast the testing and experimental methods.
2. Define emotion and describe James-Lange theory of emotion with examples.
3. What is learning? Outline various types of learning.
4. Define personality. Describe various styles of personality.
5. Write briefly on any **TWO** of the following:
 - 5A. Stages of language development.
 - 5B. Assessment of Intelligence.
 - 5C. Group processes.

SECTION – B

6. What is psychosocial rehabilitation? Enumerate various measures of disability.
7. Discuss what factors help in normal adjustment.
8. Explain the role of socio-cultural factors in developing mental disorders.
9. Explain Shaping and Chaining techniques with an example.
10. Write briefly on any **TWO** of the following:
 - 10A. Concept of Normality and Abnormality.
 - 10B. Mental Retardation.
 - 10C. Coping Strategies.

