

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.P.T./B.O.T. DEGREE EXAMINATION – SEPTEMBER 2005**SUBJECT: PATHOLOGY AND MICROBIOLOGY****(OLD/NEW REGULATION)**

Monday, September 12, 2005

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 inflammation. Describe the cellular events in acute inflammation. (2+6 = 8 marks)
2. Define shock. Describe the pathogenesis of septic shock. (1+6 = 7 marks)
3. Write short notes on any FIVE:
 - 3A. Difference between benign and malignant tumours.
 - 3B. Skeletal changes in rickets.
 - 3C. Idiopathic thrombocytopenic purpura (ITP).
 - 3D. Types of bronchiectasis.
 - 3E. Aetiology of carcinoma cervix.
 - 3F. Factors influencing fracture repair.(5×5 = 25 marks)

SECTION 'B': MICROBIOLOGY: 40 MARKS

4. Define infection. Classify different types of infection. Describe the various modes of transmission of infection. (1+2+5 = 8 marks)
5. Name the etiological agent of tetanus. Explain the pathogenesis and laboratory diagnosis of tetanus. (1+3+3 = 7 marks)
6. Write short note any FIVE of the following:
 - 6A. Immunity.
 - 6B. Robert Koch.
 - 6C. Shape and arrangement of bacteria.
 - 6D. Chemical disinfectants.
 - 6E. Candida albicans.
 - 6F. Etiological agents of sexually transmitted diseases.(5×5 = 25 marks)



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SECOND YEAR B.P.T./B.O.T. DEGREE EXAMINATION – SEPTEMBER 2005**SUBJECT: PHARMACOLOGY****(OLD/NEW REGULATIONS)**

Tuesday, September 13, 2005

Time: 1½ Hrs.

Max. Marks: 40

- 1A. Name four opioids. Write three uses and three adverse effects of any ONE.
- 1B. Explain competitive antagonism with an example.
- 1C. Give two examples and two uses for: i) Anticoagulants ii) Calcium channel blockers.
(4+2+4 = 10 marks)
- 2A. Enumerate four glucocorticoids. Mention its two uses and two adverse effects.
- 2B. What is malignant hyperthermia? Name the drug used in its treatment.
- 2C. Mention two advantages and two disadvantages of intravenous route of drug administration.
- 2D. Explain the term chemoprophylaxis with a suitable example.
(4+2+2+2 = 10 marks)
3. Explain the basis for the following:
- 3A. Adrenaline is used along with local anesthetic.
- 3B. Pyridoxine is coadministered with Isoniazid .
- 3C. Edrophonium test in myasthenia gravis.
- 3D. Salbutamol in bronchial asthma.
- 3E. Sodium bicarbonate in barbiturate poisoning.
(2×5 = 10 marks)
4. Mention one use and one adverse effect for the following drugs:
- 4A. Methotrexate.
- 4B. Erythromycin.
- 4C. Thiopentone.
- 4D. Atorvastatin.
- 4E. Lignocaine.
(1×5 = 5 marks)
5. Name two drugs for the following conditions.
- 5A. Typhoid fever.
- 5B. Maturity onset diabetes mellitus.
- 5C. Organophosphorus poisoning.
- 5D. Congestive cardiac failure.
- 5E. Osteoarthritis.
(1×5 = 5 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

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SECOND YEAR B.O.T. DEGREE EXAMINATION – SEPTEMBER 2005

SUBJECT: DEVELOPMENTAL AND EXPERIMENTAL PSYCHOLOGY

Wednesday, September 14, 2005

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer all the questions. All questions carry equal marks.**

1. Discuss the role of nature and nurture in development of individual.

(20 marks)

2. Discuss the development of thinking and concept formation in children.

(20 marks)

3. Critically evaluate the role of experimental research in learning.

(20 marks)

4. Write short notes on:

4A. Just noticeable difference.

4B. Method of psychophysics.

4C. Dependent and Independent variables.

4D. Intelligence theories.

(5×4 = 20 marks)



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SECOND YEAR B.O.T. DEGREE EXAMINATION – SEPTEMBER 2005**SUBJECT: OCCUPATIONAL THERAPY – II****(With Biomechanics and Kinesiology)**

Thursday, September 15, 2005

Time: 3 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. Discuss volar and dorsal musculature of wrist. Analyse radial and ulnar deviation with bony transition, biomechanically with appropriate diagram.
(5+10 = 15 marks)
2. Define and classify leisure and play. Compare and contrast between play and leisure.
(4+11 = 15 marks)
3. Define reflex. Classify reflexes and discuss the importance and evaluate methods of deep tendon reflexes.
(2+3+10 = 15 marks)
4. Analyse optimal posture in anterior- posterior view with appropriate diagrams and discuss the different deviation from optimal alignment in the anterior – posterior view.
(3+12 = 15 marks)
5. Short notes:
 - 5A. Enumerate the general steps of practitioners to follow to create an occupational profile.
 - 5B. Grip strength testing.
 - 5C. Dual obliquity.
 - 5D. Movement arm of muscle force.(5×4 = 20 marks)

