

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

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

Monday, August 14, 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 edema. Enumerate the types of edema and discuss the pathogenesis of renal edema. (8 marks)
 2. Define Anaemia. Classify anaemias. Describe the clinical features of iron deficiency anaemia. (1+4+2 = 7 marks)
 3. Write short notes on any FIVE.
 - 3A. Spread of tumours
 - 3B. Squamous cell carcinoma of skin
 - 3C. Sickle cell anaemia
 - 3D. Complications of atherosclerosis
 - 3E. Define and mention the types of Emphysema
 - 3F. Goitre.
- (5×5 = 25 marks)

SECTION 'B': MICROBIOLOGY: 40 MARKS

4. Define and classify immunity. Describe acquired immunity. (1+2+5 = 8 marks)
 5. Describe the pathogenesis, laboratory diagnosis and prophylaxis of poliomyelitis. (2+3+2 = 7 marks)
 6. Write short notes on any FIVE.
 - 6A. Aspergillosis.
 - 6B. Hospital acquired infections.
 - 6C. BCG.
 - 6D. Sources of infection.
 - 6E. Sterilisation by filtration.
 - 6F. Serological tests for syphilis.
- (5×5 = 25 marks)



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

Wednesday, August 16, 2006

Time: 1½ Hrs.

Max. Marks: 40

- 1A. Enumerate three centrally acting skeletal muscle relaxants and mention three uses of them.
1B. Explain the term dissociative anaesthesia.
(3+2 = 5 marks)
- 2A. Classify synthetic glucocorticoids with examples.
2B. Mention two emergency conditions in which glucocorticoids are used and two contra indications for the use of them.
(3+1+1 = 5 marks)
- 3A. Enumerate four routes of drug administration other than parenteral with an example of drug given by each of the routes.
3B. Mention two advantages and two disadvantages of intravenous route.
3C. Define the following terms:
i) Tachyphylaxis ii) Plasma half-life
iii) Drug synergism iv) Bioavailability
(3+1+4 = 8 marks)
4. Explain the pharmacological basis for the following.
4A. Nitrates in angina.
4B. Naloxone in morphine poisoning.
4C. Cyclosporine in organ transplantation.
4D. Digoxin in congestive cardiac failure.
4E. Diclofenac in osteoarthritis.
(2×5 = 10 marks)
5. Enumerate four aminoglycosides and list two adverse effects of them.
(3 marks)
- 6A. Classify expectorants with examples.
6B. Mention four differences between heparin and warfarin.
(3+2 = 5 marks)
7. Mention a drug with its route of administration for the following condition.
7A. Mild hypertension.
7B. Postoperative pain.
7C. Angle closure glaucoma.
7D. Myasthenia gravis.
(1×4 = 4 marks)



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SECOND YEAR B.O.T. DEGREE EXAMINATION – AUGUST 2006**SUBJECT: DEVELOPMENTAL AND ORGANIZATIONAL PSYCHOLOGY**

Thursday, August 17, 2006

Time: 3 Hrs.

Max. Marks: 80

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

1. Discuss various assumptions of management about its members.
2. Discuss the interaction of heredity and environment in the development of individual.
3. Describe the development of intelligence and measurement of intelligence.
4. Write short notes on:
 - 4A. Organizational Psychology and its scope.
 - 4B. Development of motor skills.
 - 4C. Environment factors affecting the group integration.
 - 4D. Assessment of social skills.



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SECOND YEAR B.O.T. DEGREE EXAMINATION – AUGUST 2006**SUBJECT: OCCUPATIONAL THERAPY – II****(With Biomechanics and Kinesiology)**

Friday, August 18, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. Enumerate the anatomical structure of the ankle-foot complex. Discuss the associated biomechanics.
(8+7 = 15 marks)
2. Define in-coordination. Explain the causes of in-coordination and briefly describe the features of cerebellar lesions.
(2+13 = 15 marks)
3. Define and clarify posture. Explain the effects of the following on body structures on posture.
 - 3A. Excessive anterior pelvic tilt.
 - 3B. Excessive lumbar lordosis.
 - 3C. Excessive dorsal kyphosis.(3+12 = 15 marks)
4. Enumerate the purpose of hand evaluation. Briefly explain the subjective and objective components of hand evaluation.
(3+12 = 15 marks)
5. Short notes:
 - 5A. Neuroanatomy of stretch reflex.
 - 5B. Lateral pelvic displacement of gait.
 - 5C. Evaluation of pallesthesia.
 - 5D. Role of social context in occupational therapy.(5×4 = 20 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

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SECOND YEAR BOT DEGREE EXAMINATION – AUGUST 2006**SUBJECT: RESEARCH METHODOLOGY AND STATISTICS**

Saturday, August 19, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer all the questions.

1A. Write briefly the steps involved in research process.

1B. State the uses of statistics in health science.

(5+5 = 10 marks)

2A. Discuss about the various scales of measurement.

2B. Explain the various graphical presentation for qualitative data.

(5+5 = 10 marks)

3A. Explain the various measures of Central tendency with an example.

3B. What is coefficient of variation and how does it differ from standard deviation?

(6+4 = 10 marks)

4A. Write in brief on census and sampling.

4B. Enumerate the merits and demerits of sampling.

(6+4 = 10 marks)

5. Write short essays on:

5A. Histogram.

5B. Types of variables.

5C. Scatter diagram.

5D. Skewness and Kurtosis.

5E. Sample registration system.

5F. Formulation of hypothesis.

5G. Reliability and validity.

5H. Uses of epidemiology.

(5×8 = 40 marks)

