

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – SEPTEMBER 2005**SUBJECT: PATHOLOGY AND MICROBIOLOGY**

Monday, September 12, 2005

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer all questions**✍ **USE SEPARATE ANSWER BOOKS FOR EACH SECTION****SECTION – 'A' : PATHOLOGY : 40 MARKS**

1. What is Eosinophilia? Name two conditions where it is increased. Describe the functions of eosinophils.
2. Define infarction. Enumerate the differences between white infarct and red infarct with suitable examples.
3. Define metastasis. Describe the modes of spread of malignant tumours with the aid of suitable diagrams.
4. What is plasma? Enumerate its functions. Tabulate the differences between transudate and exudates.
5. Describe the various techniques of blood grouping and cross matching of Blood.

(8×5 = 40 marks)

SECTION – 'B' : MICROBIOLOGY : 40 MARKS

6A. Match the following:

Part A

- 1) Vaccine bath
- 2) Vibrio
- 3) Staphylococci
- 4) Sterilization control

Part B

- a) Browne's tube
- b) Cocci in clusters
- c) 60°C
- d) Cholera

(1×4 = 4 marks)

6B. Fill in the blanks:

- i) _____ is an example of enriched media.
- ii) Cocci arranged in chains are called _____.
- iii) Organ of locomotion in bacteria is _____.
- iv) Vibrio is _____ shaped bacteria.

(1×4 = 4 marks)

7. Describe the diagnosis and control of Hospital infection. Add a note on precautions to be taken while collecting sample.

(8 marks)

8. Classify bacteria. Add a note on culture methods used in microbiology.

(8 marks)

9. Write short notes on:

9A. Koch postulates.

9B. Exotoxins.

(4×2 = 8 marks)

10. Write briefly about:

(2×4 = 8 marks)

10A. Hepatitis B vaccine

10B. Carrier of Infection

10C. UTI

10D. Antibiotic sensitivity testing by agar dilution method.



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – SEPTEMBER 2005**SUBJECT: ENT AND ORTHOPAEDICS**

Tuesday, September 13, 2005

Time: 3 Hrs.

Max. Marks: 80

✍ Answer all questions

✍ USE SEPARATE ANSWER BOOKS FOR EACH SECTION

SECTION – ‘A’ : ENT : 40 MARKS

1. Classify nasal polypi. What is the importance of CT scan prior to surgical/endoscopic treatment of sinus disease?
(3+5 = 8 marks)
2. Classify thyroid malignancies. Discuss the role of ultrasound in thyroid diseases.
(3+5 = 8 marks)
3. Describe the types of temporal bone fracture and their assessment.
(4+4 = 8 marks)
4. Describe the types and radiological findings of retropharyngeal abscess.
(3+5 = 8 marks)
5. What is cholesteatoma? What are the characteristic findings of cholesteatoma on x-ray and CT scan?
(2+6 = 8 marks)

SECTION – ‘B’ : ORTHOPAEDICS : 40 MARKS

6. Draw a diagram of lower end of humerus and label the parts. Enumerate four common injuries around the elbow. How the diagnosis of injury around the elbow is confirmed?
(4+2+2 = 8 marks)
7. What are the points you should take into consideration while taking radiographs of an injured limb? Discuss their relevance. Mention four complications that can occur in a fractured limb.
(2+2+4 = 8 marks)
8. What is Perthes' disease? In which age group it is commonly seen? Discuss the clinical presentation. Enumerate the investigations to diagnose Perthes' disease.
(2+1+3+2 = 8 marks)
9. What is osteoporosis? Mention the radiological grading of osteoporosis. What are the conditions that can cause osteoporosis in adults and elderly? Mention two complications of osteoporosis.
(2+2+2+2 = 8 marks)
10. Name four commonly used Orthopaedic hardwares (implants). What are the Orthopaedic conditions they are used? Briefly describe any two of these hardwares.
(2+2+4 = 8 marks)



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – SEPTEMBER 2005

SUBJECT: FORENSIC MEDICINE

Wednesday, September 14, 2005

Time: 1½ Hrs.

Max. Marks: 40

✍ All questions are compulsory.

1. Explain the term professional secrecy. Mention two exceptions of professional secrecy. Add a note on the use of 'Red Cross' sign.

(4+2+2 = 8 marks)

2. Write briefly on:

2A. 'Captain of the ship' doctrine and 'Borrowed servant' doctrine.

2B. Warning and warning notice.

(2+2+2+2 = 8 marks)

3. Explain with examples, the terms contributory negligence and therapeutic misadventure.

(4+4 = 8 marks)

4. Write short notes on:

4A. Informed consent.

4B. Registered Medical Practitioner.

(4+4 = 8 marks)

5. What is 'res ipsa loquitur'? Add a note on 'medical product liability'.

(4+4 = 8 marks)



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – SEPTEMBER 2005

SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Thursday, September 15, 2005

Time: 1½ Hrs.

Max. Marks: 40

✍ Answer ALL the questions. Each question carries EIGHT marks.

1. Write in detail about indications, contraindications and procedure of barium meal.

2. Write short notes on:
 - 2A. Sialography.
 - 2B. Contrast media classification.

3. Write short notes on:
 - 3A. Dacrocystography.
 - 3B. Angiography catheters.

4. Write in detail about procedure and complications of intravenous urography.

5. Discuss the indications, contraindications and procedure of myelography.

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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – SEPTEMBER 2005

SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

Friday, September 16, 2005

Time: 1½ Hrs.

Max. Marks: 40

✍ Answer ALL the questions. Each question carries EIGHT marks.

1. Describe the AP and axial view (for intertuberosus sulcus) for humerus.
2. Describe the view for lungs PA(view) and AP (supine).
3. Describe AP view and left lateral decubitus view for abdomen.
4. Describe the principle of ultrasound. Write in detail about ultrasound transducers.
5. Describe the various generations of CT scanners.

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