

MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: PATHOLOGY AND MICROBIOLOGY

Wednesday, December 10, 2008

Time: 10.00-13.00 Hrs.

Max. Marks: 80

✗ Use separate answer books for each section.

✗ Answer all questions.

SECTION – 'A' : PATHOLOGY : 40 MARKS

1. Define inflammation. Describe the cellular events in inflammation. (2+6 = 8 marks)

2. Define shock. List the types of shock. Explain the pathogenesis of septic shock. (1+2+4 = 7 marks)

3. Write short notes on:
 - 3A. Leprosy.
 - 3B. Nutritional anemias.
 - 3C. Factors influencing thrombosis.
 - 3D. Types of necrosis with examples.
 - 3E. Spread of tumors.(5×5 = 25 marks)

SECTION – 'B' : MICROBIOLOGY : 40 MARKS

4A. Match the following:

Part – I

- 1) Gram positive
- 2) Motility
- 3) Gram negative
- 4) Adhesion

Part – II

- a) Pili
- b) Teichoic acid
- c) Flagella
- d) Lipopolysaccharide

(1×4 = 4 marks)

4B. Fill in the blanks:

- i) An example of dry heat sterilization is _____.
- ii) AIDS is caused by _____ Virus.
- iii) _____ is an enriched culture medium.
- iv) _____ is a killed viral vaccine.

(1×4 = 4 marks)

5. Classify parasites of medical importance giving one example for each.

(8 marks)

6. Describe the structure of a bacterial cell with a neat labelled diagram.

(6+2 = 8 marks)

7. Write short notes on:

7A. Wound infection.

7B. Morphological classification of fungus.

(4×2 = 8 marks)

8. Write briefly about:

8A. Sterilization by Radiation.

8B. Endotoxin.

8C. Filtration.

8D. Carrier state.

(2×4 = 8 marks)



MANIPAL UNIVERSITY**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008****SUBJECT: ENT AND ORTHOPAEDICS**

Thursday, December 11, 2008

Time: 10.00-13.00 Hrs.

Max. Marks: 80

✍ Use separate answer books for each section.

✍ Answer all questions.

SECTION – 'A': ENT: 40 MARKS

1. Enumerate the clinical features of zygomatic fractures and their radiological evaluation.
(4+4 = 8 marks)
2. Enumerate the causes of epistaxis. Describe briefly the role of radiology in unilateral epistaxis.
(4+4 = 8 marks)
3. What are the types of acute tonsillitis? Enumerate their clinical features and relevant investigations.
(2+4+2 = 8 marks)
4. Describe the types of mandibular fractures and their assessment.
(4+4 = 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. What is the number of bones in the body? Describe the anatomy of a human radius with a diagram.
(1+4+3 = 8 marks)
7. What are closed fractures and open fractures? Discuss the clinical features of a fracture.
(2+6 = 8 marks)
8. What are ABC's of first aid? Draw a diagram of a Thomas splint and label the parts.
(4+4 = 8 marks)
9. Enumerate the causes of osteomyelitis. What is a sinus? Write briefly on sinogram.
(2+1+5 = 8 marks)
10. What is osteoporosis? What are the types of osteoporosis? How do you grade the osteoporosis of the spine by radiograph?
(2+2+4 = 8 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: FORENSIC MEDICINE

Friday, December 12, 2008

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ **All questions are compulsory.**

1. Explain any four instances considered to be professional misconduct in medical practice. Explain the procedure of disciplinary action against a doctor involved in infamous conduct.
(4+4 = 8 marks)

2. Write briefly on:
 - 2A. Contributory negligence
 - 2B. Informed consent.(4+4 = 8 marks)

3. Explain the terms 'Novus Actus Interveniens', 'Dichotomy', 'Informed refusal' and 'Res Ipsa Loquitur'.
(2+2+2+2 = 8 marks)

4. Explain the functions of State Medical Council. Add a note on the components of negligence.
(4+4 = 8 marks)

5. Write short notes on:
 - 5A. Penal Erasure.
 - 5B. 'Respondeat superior' doctrine.(4+4 = 8 marks)



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Saturday, December 13, 2008

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ **All questions carry EIGHT marks.**

1. Write about indications, procedure and complications of angiography.
2. Write in detail about indications, contraindications and procedure of enteroclysis.
3. Contrast media classification - write about complications.
4. Fallopian tube recanalisation.
5. Write in detail about indication, contraindications of Myelography and its procedure.



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MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

Monday, December 15, 2008

Time: 10.00-11.30 Hrs.

Max. Marks: 40

Answer ALL questions.

1. Define window level and window width. Mention their role in CT image display. (8 marks)
2. List the Ultrasonography control keys with function. Explain Time Gain Compensation. (8 marks)
- 3A. Explain the anatomy of urinary tract with the radiographic land markings.
- 3B. Describe the view for KUB with indication and preparation. (4×2 = 8 marks)
- 4A. Describe the radiographic anatomy of elbow joint and list the radiographic views.
- 4B. Explain AP view of forearm. (4×2 = 8 marks)
- 5A. Enumerate the skull bones and mention the land markings of skull.
- 5B. Explain Town's view including indication, preparation and part demonstrated. (4×2 = 8 marks)



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: MEDICINE

Tuesday, December 16, 2008

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ Answer ALL the questions.

1. Describe the clinical features of Pneumothorax.
(8 marks)
2. Describe the indication for intubation and Tracheostomy.
(8 marks)
3. Write notes on Diabetes Mellitus.
(8 marks)
4. What is liver Abscess? What are the clinical features?
(8 marks)
5. What is anaemia? Describe the causes of Anaemia and Clinical features.
(8 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: SURGERY

Wednesday, December 17, 2008

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

1. Clinical features of intestinal obstruction.
2. Clinical features of peripheral vascular disease.
3. Causes of neck swelling.
4. Clinical features of Hydatid disease.
5. Causes of splenomegaly.

(8×5 = 40 marks)

