

MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007
SUBJECT: PATHOLOGY AND MICROBIOLOGY

Monday, December 10, 2007

Time: 3 Hrs.

Max. Marks: 80

☞ Use separate answer books for each section.

SECTION – 'A' : PATHOLOGY : 40 MARKS

1. Define thrombosis. Discuss the factors influencing the formation of a thrombus. (2+6 = 8 marks)
2. Define neoplasia. Write the differences between benign and malignant tumours. (2+5 = 7 marks)
3. Write short notes on the following:
 - 3A. Renal edema.
 - 3B. Differences between tuberculoid and lepromatous leprosy.
 - 3C. Haemophilia.
 - 3D. Phagocytosis.
 - 3E. Rickets. (5×5 = 25 marks)

SECTION – 'B' : MICROBIOLOGY : 40 MARKS

- 4A. Match the following:

Part – I

- 1) UTI
- 2) Dysentery
- 3) Typhoid
- 4) Syphilis

Part - II

- a) Salmonella
- b) Klebsiella
- c) Treponioma
- d) Shigella

(1×4 = 4 marks)

- 4B. Fill in the blanks:

- i) Holding period for hot air oven at 160°C is _____.
- ii) Malaria is transmitted by _____.
- iii) Serum is sterilised by the method of _____.
- iv) Ribosomes are the site of _____ synthesis.

(1×4 = 4 marks)

5. Define and classify sterilisation. Describe the principle, parts and uses of a laboratory Autoclave.

(1+3+4 = 8 marks)

6. Define hospital acquired infection. Enumerate and briefly describe the various hospital acquired infections.

(1+3+4 = 8 marks)

7. Write short note on:

7A. Bacterial cell wall

7B. National Immunization schedule

(4×2 = 8 marks)

8. Write briefly on:

8A. Mc Intosh Fildes Jar.

8B. Non-Ionizing radiation

8C. BCG

8D. Antibiotic Susceptibility test

(2×4 = 8 marks)



MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: ENT AND ORTHOPAEDICS

Tuesday, December 11, 2007

Time: 3 Hrs.

Max. Marks: 80

USE SEPARATE ANSWER BOOKS FOR EACH SECTION

SECTION – 'A': ENT: 40 MARKS

1. Enumerate the indications of tracheostomy. (8 marks)
2. Enumerate the causes and briefly describe the role of radiology in unilateral nose block. (4+4 = 8 marks)
3. Describe the clinical features of Le Forte III fracture and it's radiological evaluation. (4+4 = 8 marks)
4. What is cholesteatoma? Describe it's characteristic x-ray and CT scan findings. (2+6 = 8 marks)
5. What are the types of acute tonsillitis? Briefly describe their clinical features and relevant investigations. (2+4+2 = 8 marks)

SECTION – 'B' : ORTHOPAEDICS : 40 MARKS

6. Classify orthopaedic conditions. Give two examples to each condition. (4+4 = 8 marks)
7. Describe the anatomy of a vertebra. Explain the first aid measures in spinal injury. Name spinal implants. (3+3+2 = 8 marks)
8. Discuss osteoporosis. (8 marks)
9. Name two complications of each of these:
 - 9A. Sinogram
 - 9B. Osteomyelitis
 - 9C. Fractures
 - 9D. Septic arthritis.(2+2+2+2 = 8 marks)
10. Write short notes on:
 - 10A. Open fractures.
 - 10B. Arthrography
 - 10C. Antitubercular treatment
 - 10D. Haemorrhage(2+2+2+2 = 8 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: FORENSIC MEDICINE

Wednesday, December 12, 2007

Time: 1½ Hrs.

Max. Marks: 40

☞ All questions are compulsory.

1. Write briefly on Informed Consent. Add a note on valid consent.
(4+4 = 8 marks)

2. Write briefly on:
 - 2A. Professional secrecy
 - 2B. Privileged communication.(4+4 = 8 marks)

3. Define Infamous Conduct. What are the ingredients of Infamous Conduct? Briefly explain the procedure of disciplinary action against the doctor alleged to have been guilty of infamous conduct?
(2+2+4 = 8 marks)

4. Define Professional Negligence? What are the elements of negligence? Add a note on Therapeutic misadventure.
(2+2+4 = 8 marks)

5. Write short notes on:
 - 5A. Res Ipsa Loquitur
 - 5B. Contributory negligence.(4+4 = 8 marks)



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Thursday, December 13, 2007

Time: 1½ Hrs.

Max. Marks: 40

☞ Each question carries EIGHT marks.

1. Write in detail about contraindications, procedure and after care of patient in myelography.

2. Write short notes on:
 - 2A. Role of compression in IVU.
 - 2B. Contrast reactions.

3. Write short notes on:
 - 3A. Barium suspension.
 - 3B. Sialography.

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

5. Write in detail about indications and procedure of micturating cystourethrography.



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

Friday, December 14, 2007

Time: 1½ Hrs.

Max. Marks: 40

✍ Each question carries EIGHT marks.

1. Describe the following views for cervical spine.
a) AP b) Lateral c) Oblique
2. Describe following views for ankle joint
a) AP and b) Lateral
3. Describe the: a) AP and b) lateral view for knee joints.
4. What is continuous wave doppler?
5. Describe the detectors used in CT Scanners.



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: MEDICINE

Saturday, December 15, 2007

Time: 1½ Hrs.

Max. Marks: 40

Answer ALL the questions.

1. Causes and clinical features of Pleural Effusion. (8 marks)
2. Write short notes on Intubation and Tracheostomy. (8 marks)
3. Causes and clinical features of Cholecystitis. (8 marks)
4. Define hypertension. Describe the clinical features of Hypertension. (8 marks)
5. What are the clinical features of Chronic renal failure. (8 marks)



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SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2007

SUBJECT: SURGERY

Monday, December 17, 2007

Time: 1½ Hrs.

Max. Marks: 40

✍ **Write short notes on the following:**

1. Aetiopathogenesis and clinical features of Ureteric Calculi.
2. Define sinus and fistula. Classify them. Add a note on clinical features.
3. Ascites – Definition, Types, Causes, Clinical features.
4. Carcinoma Breast – Causes and Risk factors, Clinical features.
5. Amebiasis.

(8×5 = 40 marks)

