

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

Thursday, June 07, 2007

Time: 3 Hrs.

Max. Marks: 80

✍ Use separate answer books for each section.

SECTION – 'A' : PATHOLOGY : 40 MARKS

1. Define necrosis. Mention the types of necrosis. Give one example for each type. Give the morphology of any one type.
(1+2+2+3 = 8 marks)
2. Define leukemia. Classify leukemias. Describe the clinical features of acute leukemias.
(1+3+3 = 7 marks)
3. Write short notes on the following:
 - 3A. Fate of thrombus.
 - 3B. Primary tuberculosis
 - 3C. Factors affecting wound healing
 - 3D. ITP
 - 3E. Vitamin A deficiency.

(5×5 = 25 marks)

SECTION – 'B' : MICROBIOLOGY : 40 MARKS

- 4A. Match the following:

Part – I

- 1) Malaria
- 2) Cholera
- 3) Hepatitis
- 4) Rabies

Part – II

- a) Blood
- b) Mosquito
- c) Dog
- d) Water

- 4B. Fill in the blanks:

- i) Holding period for hot air oven is _____ minutes at 160°C.
- ii) _____ is used for cold sterilization.
- iii) _____ is an example of killed bacterial vaccine.
- iv) Microorganisms without definite nucleus are called _____.

((1×4)+(1×4) = 8 marks)

5. Define and classify Sterilization. Explain methods of dry heat sterilization.

(1+3+4 = 8 marks)

6. Classify viruses of medical importance with examples. Add a note on viral vaccines.

(4+4 = 8 marks)

7. Write short note on:

7A. Immunization.

7B. Chemical disinfectants.

(4×2 = 8 marks)

8. Write briefly about:

8A. Inspissation.

8B. Hospital acquired infection.

8C. Bacterial Capsule.

8D. Exotoxins.

(2×4 = 8 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2007
SUBJECT: ENT AND ORTHOPAEDICS
 Friday, June 08, 2007

Time: 3 Hrs.

Max. Marks: 80

☞ **USE SEPARATE ANSWER BOOKS FOR EACH SECTION**

SECTION – 'A': ENT: 40 MARKS

1. Describe the clinical features of Le Forte III fracture and it's radiological evaluation.
(4+4 = 8 marks)
2. Enumerate the intracranial complications of otitis media and their radiological assessment.
(3+5 = 8 marks)
3. Enumerate the causes of unilateral nose block. Briefly describe the role of radiology in unilateral nose block
(5+3 = 8 marks)
4. Enumerate the clinical features and evaluation of a child with adenoid hypertrophy.
(4+4 = 8 marks)
5. Enumerate the indications of tracheostomy.
(8 marks)

SECTION – 'B' : ORTHOPAEDICS : 40 MARKS

6. What are the bones that form the shoulder joint? Describe the human clavicle with a neat diagram. What are the different parts of the scapula?
(2+4+2 = 8 marks)
7. How do you classify fractures? Draw neat line diagrams of various types of fractures. What is the significance of an open fracture?
(2+4+2 = 8 marks)
8. How do you splint a fractured lower limb? What are the precautions you take during transport and later while taking radiographs of a fractured lower limb.
(2+2+4 = 8 marks)
9. Describe the etiology, pathogenesis and clinical features of acute osteomyelitis. Add a note on radiographic findings of chronic osteomyelitis.
(5+3 = 8 marks)
10. What are the common sites of skeletal tuberculosis? What are the stages of TB arthritis? Briefly describe the radiological features of TB hip.
(2+2+4 = 8 marks)



Reg. No.

MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2007
SUBJECT: FORENSIC MEDICINE

Saturday, June 09, 2007

Time: 1½ Hrs.

Max. Marks: 40

✍ **Answer all the questions.**

1. Describe in brief the functions of the

1A. Indian Medical Council

1B. State Medical Council

(4+4 = 8 marks)

2. Explain professional negligence. Mention four ingredients of negligence. Describe any four defences against a negligence suit.

(2+2+4 = 8 marks)

3. Who is a registered medical practitioner? What are the duties of a registered medical practitioner?

(2+6 = 8 marks)

4. Write briefly on:

4A. Vicarious Liability

4B. Res Ipsa Loquitur

(4+4 = 8 marks)

5. Explain the term 'consent'. Mention reasons for obtaining consent in medical practice. What is a valid consent?

(2+2+4 = 8 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2007
SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Monday, June 11, 2007

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 enema.

2. Write short notes on:
 - 2A. Dacrocystography.
 - 2B. Contrast media used in IVU.

3. Write short notes on:
 - 3A. Sialography.
 - 3B. Fallopian tube recanalisation.

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

5. Write in detail about lumbar puncture technique and indications and contraindications for myelography.



Reg. No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

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

SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

Tuesday, June 12, 2007

Time: 1½ Hrs.

Max. Marks: 40

✍ **Answer ALL the questions. All questions carry EIGHT marks.**

1. Describe the views for humerus i) AP and ii) Axial.
2. Describe both hips AP. Write a note on effects of rotation of the limbs.
3. Describe lateral view for calcaneum. Describe carpal tunnel – axial view.
4. Describe various types of steered-array transducers.
5. Enumerate the interactions between ultrasound and matter. Add a note on absorption.



Reg. No.

--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

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

SUBJECT: MEDICINE

Wednesday, June 13, 2007

Time: 1½ Hrs.

Max. Marks: 40

Answer ALL the questions.

1. Define fever. Enumerate the types of Fever. (8 marks)
2. Causes and clinical features of Pancreatitis. (8 marks)
3. What are the causes of Intestinal Obstruction? What are the radiological investigations to diagnose Intestinal Obstruction. (8 marks)
4. Highlight the clinical features of Tuberculosis. (8 marks)
5. Causes and clinical features of Pulmonary edema. (8 marks)



Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2007

SUBJECT: SURGERY

Thursday, June 14, 2007

Time: 1½ Hrs.

Max. Marks: 40

✍ Write notes on the following:

1. Causes of intestinal obstruction.
2. Clinical features of an ulcer.
3. Causes of ascites and its clinical features.
4. Clinical presentation of amoebiasis.
5. Causes of splenomegaly.

(8×5 = 40 marks)

