

**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012**  
**SUBJECT: PATHOLOGY AND MICROBIOLOGY**

Monday, June 11, 2012

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- ✍ Use **SEPARATE ANSWER BOOKS** for each section.  
✍ Answer **all** questions. Draw diagrams wherever appropriate

**SECTION – 'A' : PATHOLOGY : 40 MARKS**

1. Define shock. Describe the pathogenesis of septic and hypovolemic shock.  
(1+7 = 8 marks)
  
2. Define leukemia. Describe the FAB classification and clinical features of leukemia.  
(1+6 = 7 marks)
  
3. **Write short notes on:**
  - 3A. Lepromatous leprosy.
  - 3B. Sick cell anemia
  - 3C. Differences between benign and malignant tumours.
  - 3D. Hyperplasia and metaplasia with examples.
  - 3E. Factors influencing thrombosis.(5×5 = 25 marks)

**SECTION – 'B': MICROBIOLOGY : 40 MARKS**

4. Classify bacteria based on morphology with examples. Illustrate the structure of a bacterial cell with the help of a labeled diagram.  
(3+5 = 8 marks)
  
5. Explain the mechanism innate immunity.  
(7 marks)
  
6. **Write short notes on:**
  - 6A. Gaseous disinfectants.
  - 6B. Morphological classification of fungi with examples.
  - 6C. Hot air oven.
  - 6D. Louis Pasteur.
  - 6E. Passive immunity.(5×5 = 25 marks)



**MANIPAL UNIVERSITY****SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012****SUBJECT: PHARMACOLOGY**

Wednesday, June 13, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. List two each advantages and disadvantages of oral and sublingual route of drug administration and give one example of drug administered through each route. (5 marks)
- 2A. List two sources of drugs and give one example for each.  
2B. List two sources of drug information. (2+1 = 3 marks)
3. Define the following terms with an example:  
3A. Iotrogenic disease  
3B. Synergism  
3C. Chemoprophylaxis  
3D. Competitive antagonism (2×4 = 8 marks)
4. Mention a drug belonging to the following class and explain its mechanism of action  
4A. DMARDs  
4B. Uric acid synthesis inhibitors  
4C. Penicillins  
4D. Anticoagulants  
4E. Antitussives (2×5 = 10 marks)
5. List four NSAIDs and list their two uses and two adverse effects. (4 marks)
6. List two drugs used in the following conditions.  
6A. Parkinsonism  
6B. Diabetes  
6C. Hypertension  
6D. Bronchial asthma  
6E. Vomiting (1×5 = 5 marks)
7. List two uses of the following drugs  
7A. Atropine  
7B. Adrenaline  
7C. Succinylcholine  
7D. Metronidazole  
7E. Nandrolone (1×5 = 5 marks)



**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012**  
**SUBJECT: FORENSIC MEDICINE**

Friday, June 15, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

☞ **All questions are compulsory.**

**1. Essay questions:**

1A. Explain vicarious liability and its doctrines.

(5 marks)

1B. Enumerate any four defences against medical negligence. Explain any one of them in detail.

(2+3 = 5 marks)

**2. Short Notes:**

2A. Product liability.

2B. Medical maloccurrence.

2C. Medical significance of ages 12 to 18 yrs.

2D. Loco parentis.

2E. Contributory negligence.

2F. Functions of State Medical Council.

2G. Therapeutic Misadventure.

2H. Warning and warning notice.

2I. Professional secrecy.

2J. Forensic Radiology.

2K. Infamous conduct.

2L. Consent in Medical Practice.

( $2\frac{1}{2} \times 12 = 30$  marks)



**MANIPAL UNIVERSITY****SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012****SUBJECT: ENT AND ORTHOPAEDICS**

Monday, June 18, 2012

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. Describe the clinical features of Le Fort II fracture and it's radiological evaluation.  
(4+4 = 8 marks)
2. Enumerate the causes of epistaxis. Discuss the radiological evaluation of sinonasal tumor (maxillary carcinoma).  
(3+5 = 8 marks)
3. Describe the types, assessment and treatment of deviated nasal septum.  
(2+4+2 = 8 marks)
4. Discuss the types and clinical features of chronic otitis media and the radiological assessment of intracranial complications of otitis media.  
(4+4 = 8 marks)
5. Discuss the types, clinical features and assessment of temporal bone fracture.  
(2+3+3 = 8 marks)

**SECTION – 'B' : ORTHOPAEDICS : 40 MARKS**

6. What is the number of bones in the body? Describe the anatomy of a human femur 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. Define osteoporosis. Enumerate different conditions causing osteoporosis.  
(2+6 = 8 marks)



**MANIPAL UNIVERSITY****SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012****SUBJECT: MEDICINE**

Wednesday, June 20, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

**✍ Answer ALL questions:**

1. Define shock. Enumerate the types of shock and its general features.
2. Enumerate the types, clinical features and chest x-ray findings in a case of pneumothorax.
3. Mention the clinical features of chronic renal failure. Discuss the different modalities of radiological investigations in a patient with chronic renal failure.
4. Enlist the clinical features of acute pancreatitis. Discuss the role of ultrasound abdomen and CT abdomen towards diagnosis and management.
5. Write a note on need and methods employed for universal precautions.

(8×5 = 40 marks)



**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012**

**SUBJECT: SURGERY**

Friday, June 22, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

**☞ All questions compulsory.**

1. Describe clinical features, investigations and treatment of case of varicose veins of right lower limb.  

(3+4+3 = 10 marks)
2. Describe clinical features, investigation and treatment of case of acute calculous cholecystitis.  

(4+4+2 = 10 marks)
3. Describe clinical features, investigation and treatment in a case of peripheral vascular disease of right lower limb due to atherosclerosis. Give a special mention of seldeinger's technique of angiography.  

(2+5+3 = 10 marks)
4. **Write short notes on:**
  - 4A. Venous ulcer.
  - 4B. Ascites.
  - 4C. Incisional biopsy.
  - 4D. Causes of splenomegaly.

(2+2+2+4 = 10 marks)



**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2012**  
**SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES**

Monday, June 25, 2012

Time: 10:00-11:30 Hrs.

Max. Marks: 40

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- ✍ **Answer all questions.**
  - ✍ **Each question carries EIGHT marks.**

1. Write the indication, contraindication and procedure IVU.
2. Describe indication, contraindication and procedure for enteroclysis.
3. Describe single contrast Barium Meal.
4. Describe HSG with diagrams.
5. **Write short notes on the following:**
  - 5A. Manufacturing of barium
  - 5B. MCU

