

**MANIPAL UNIVERSITY****SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011****SUBJECT: PATHOLOGY AND MICROBIOLOGY**

Monday, June 06, 2011

Time: 14:00-17:00 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 necrosis. Describe the different types of necrosis giving suitable examples.  
(2+6 = 8 marks)
2. Define leukemia. Give the FAB classification of acute myeloid and acute lymphoblastic leukemia. Describe the clinical features of acute leukemia.  
(1+3+3 = 7 marks)
3. **Write short notes on:**
- 3A. Granulomatous inflammation with examples.  
3B. Aetiology, modes of infection and clinical features of AIDS.  
3C. Thalassemia.  
3D. Spread and prognosis of tumors.  
3E. Fate of a thrombus.  
(5×5 = 25 marks)

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

4. Define and classify hypersensitivity. Discuss in detail type IV hypersensitivity reaction.  
(1+2+5 = 8 marks)
5. Define and classify sterilization. Explain the working principle and applications of an autoclave.  
(1+2+4 = 7 marks)
6. **Write short notes on:**
- 6A. Bacterial growth curve.  
6B. Sources and routes of spread of hospital acquired infections.  
6C. Classification of parasites with examples.  
6D. Cell mediated Immunity.  
6E. Bacterial culture media.  
(5×5 = 25 marks)



## MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011

SUBJECT: PHARMACOLOGY

Wednesday, June 08, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

1. List two each advantages and disadvantages of following route of drug administration and give one example of drug administered through each route.
  - 1A. Intravenous
  - 1B. Sublingual

(2½×2 = 5 marks)
  
2. Define the following terms with one example
  - 2A. Generic name of a drug
  - 2B. Zero order kinetics
  - 2C. Idiosyncrasy

(2×3 = 6 marks)
  
3. List two factors modifying drug action with one example for each.

(1½×2 = 3 marks)
  
4. List four NSAIDs and explain the basis for using them in rheumatoid arthritis.

(4 marks)
  
5. List two drugs belonging to the following class:
  - 5A. Peripherally acting skeletal muscle relaxants
  - 5B. Anticholinergics
  - 5C. Local anesthetics
  - 5D. Antiepileptics
  - 5E. ACE inhibitors
  - 5F. Anabolic steroids

(1×6 = 6 marks)
  
6. Explain the pharmacological basis for the following:
  - 6A. Nitroglycerine is used in angina
  - 6B. Salbutamol is used in bronchial asthma
  - 6C. Allopurinol is used in chronic gout
  - 6D. Morphine is contraindicated in head injury
  - 6E. Levodopa is combined with carbidopa

(2×5 = 10 marks)
  
7. Mention one drug belonging to the following class and explain its mechanism of action.
  - 7A. Beta- latam antibiotics
  - 7B. Macrolides
  - 7C. Anticoagulant

(2×3 = 6 marks)



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**MANIPAL UNIVERSITY**

**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011**

**SUBJECT: FORENSIC MEDICINE**

Friday, June 10, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

✍ **All questions are compulsory.**

✍ **Essay Questions:**

1. What is Negligence? What are its types? Write a note on Criminal negligence.

(1+2+2 = 5 marks)

2. Define "Infamous Conduct" in professional respect with suitable examples.

(2+3 = 5 marks)

**3. Short Notes:**

3A. Novus Actus interveniens.

3B. Res ipsa loquitur.

3C. Medical significance of ages 18 to 21 yrs.

3D. Corporate negligence.

3E. Loco parentis.

3F. Informed Refusal.

3G. Therapeutic privilege

3H. Penal erasure.

3I. Warning and warning notice.

3J. Damage and damages.

3K. Professional secrecy.

3L. Privileged communication.

(2½×12 = 30 marks)



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**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011**  
**SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES**

Monday, June 13, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

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✍ **Answer all questions.**

✍ **Each question carries 8 marks.**

1. Write in detail about the filming sequence in IVU with a diagram of urinary tract.
2. Describe indication, contraindication and procedure for Barium enema.
3. Describe the indication for Cisternal puncture and list the filming for cervical myelogram.
4. Describe MCU in detail.
5. **Write short notes on the following:**
  - 5A. Barium sulphate.
  - 5B. Low osmolar contrast media.



## MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011

SUBJECT: ENT AND ORTHOPAEDICS

Wednesday, June 15, 2011

Time: 14:00-17:00 Hrs.

Max. Marks: 80

✍ USE SEPARATE ANSWER BOOKS FOR EACH SECTION.

✍ Answer All Questions.

### SECTION – 'A': ENT: 40 MARKS

1. What is orthopentamogram (OPG) and reverse orthopentamogram? What are its indications and findings in different diseases?  
(3+5 = 8 marks)
2. How would you evaluate a case of suspected CSF rhinorrhoea?  
(8 marks)
3. Enumerate the causes of hoarseness. Discuss in detail regarding its radiologic investigations.  
(3+5 = 8 marks)
4. What is cholesteatoma? Discuss its complications and radiologic investigations.  
(2+2+4 = 8 marks)
5. Describe the role of CT and MRI in evaluation of sinonasal malignancies.  
(8 marks)

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

6. Describe four early and four late complications of fractures.  
(8 marks)
7. Enumerate internal fixation devices.  
(8 marks)
8. Classify spinal vertebrae. Describe the anatomy of a typical lumbar vertebra.  
(8 marks)
9. Precautions while radiographing a fractured limb.  
(8 marks)
10. What is Perthes' disease? Describe its radiological features.  
(8 marks)



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**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011**

**SUBJECT: MEDICINE**

Friday, June 17, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

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**✍ Answer ALL the questions.**

1. Approach to a case of Pulmonary Tuberculosis.  
(8 marks)
2. Describe various types of shock. Etiology, pathophysiology and Clinical features of Septic Shock.  
(8 marks)
3. Discuss approach to a case of Type 2 Diabetes Mellitus.  
(8 marks)
4. How do you approach a case of Iron Deficiency anaemia?  
(8 marks)
5. Approach to a case of Ischaemic Heart Disease.  
(8 marks)



**MANIPAL UNIVERSITY****SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2011****SUBJECT: SURGERY**

Monday, June 20, 2011

Time: 14:00-15:30 Hrs.

Max. Marks: 40

1. Classify Breast lumps. Describe clinical features and relevant investigations in a case of carcinoma breast.  
(8 marks)
2. Enumerate risk factors of cholecystitis. Discuss pathophysiology and relevant investigations of the same.  
(8 marks)
3. What is ATLS? Briefly describe the patient care in a case of abdominal trauma.  
(8 marks)
4. Discuss clinical features and relevant investigations in a case of Hydatid disease of liver.  
(8 marks)
5. **Write short notes:**
  - 5A. Define sinus.
  - 5B. Define melena.
  - 5C. Define intermittent claudication.
  - 5D. Enumerate causes of dysphagia

(2×4 = 8 marks)

