

**MANIPAL UNIVERSITY**  
**SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2015**  
**SUBJECT: PATHOLOGY AND MICROBIOLOGY**  
**(2012 SCHEME)**

Monday, June 15, 2015

Time: 10:00-13:00 Hrs.

Max. Marks: 80

✍ Use separate answer books for each section.

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

✍ Answer ALL questions.

1. Describe the process of wound healing by secondary intention. Add a note on factors influencing wound healing.  
(4+4 = 8 marks)
2. Define neoplasia. Write the differences between benign and malignant tumors.  
(2+5 = 7 marks)
3. **Write short notes on:**
  - 3A. Hyperplasia and metaplasia
  - 3B. Aetiology and clinical features of nutritional anaemias
  - 3C. Primary tuberculosis
  - 3D. Thrombocytopenia
  - 3E. Embolism

(5 marks × 5 = 25 marks)

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

✍ Draw diagrams wherever appropriate.

1. Giving examples, classify bacteria based on morphology.  
(4+4 = 8 marks)
2. Define and classify immunity. Explain the mechanism of any one of them.  
(1+2+4 = 7 marks)
3. **Write short notes on:**
  - 3A. Enriched media
  - 3B. Morphological classification of fungus
  - 3C. Dry heat sterilization
  - 3D. Measles virus eye infections
  - 3E. Sources of hospital acquired infection

(5 marks × 5 = 25 marks)



**MANIPAL UNIVERSITY****SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2015****SUBJECT: ENT AND ORTHOPAEDICS  
(NR – 2012 SCHEME)**

Wednesday, June 17, 2015

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. Discuss in detail about the pharyngeal pouches and its radiological evaluation. (4+4 = 8 marks)
2. Enumerate the causes of dysphagia. Discuss in detail regarding its radiological investigation. (4+4 = 8 marks)
3. Discuss the etiology of facial palsy. How will radiologically evaluate a case of facial palsy? (3+5 = 8 marks)
4. Enumerate clinical features of zygoma fractures. Discuss in detail regarding its radiologic investigations. (3+5 = 8 marks)
5. Enumerate the causes of epistaxis. Discuss regarding the radiological investigation of a case of epistaxis. (3+5 = 8 marks)

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

1. Classify orthopaedic conditions. Give two examples for each condition. (4+4 = 8 marks)
2. Describe the anatomy of a vertebra. Explain the first aid measures in spinal injury. Name two spinal implants. (3+3+2 = 8 marks)
3. Discuss osteoporosis. (8 marks)
4. Name four complications of each of these:  
a) Osteomyelitis                      b) Fractures (4+4 = 8 marks)
5. Write short notes on:  
a) Open fractures                      b) Antitubercular treatment (4+4 = 8 marks)



**MANIPAL UNIVERSITY****SECOND YEAR B.P.T./B.O.T./B.Sc. M.I.T./B.Sc. C.V.T./B.Sc. R.R.T. & D.T.  
DEGREE EXAMINATION – JUNE 2015****SUBJECT: PHARMACOLOGY**  
(COMMON FOR 2010 REGULATION/2011 BATCH/2012 SCHEME/2011 SCHEME)

Friday, June 19, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

**Answer the following questions:****1. Define the following terms:**

- 1A. Biotransformation
- 1B. First pass metabolism
- 1C. Chemoprophylaxis

(2 marks × 3 = 6 marks)

- 2A. List three advantages and three disadvantages of oral route of drug administration.
- 2B. Describe the effects of adrenaline on: heart and blood vessels.
- 2C. List two bronchodilators used in asthma and explain the mechanism of action of any one of them.
- 2D. Describe three factors modifying drug action.

(3+3+3+3 = 12 marks)

- 3A. Name two antiplatelet drugs and mention two therapeutic uses of them.
- 3B. Write basis for combining levodopa and carbidopa in Parkinsonism.
- 3C. Describe mechanism of action of cotrimoxazole and mention its one use.
- 3D. List two therapeutic uses and two adverse effects of corticosteroids.

(2+2+2+2 = 8 marks)

**4. Describe the following terms with one example:**

- 4A. Brand name of drug
- 4B. Synergism
- 4C. Local anesthetics

(2 marks × 3 = 6 marks)

**5. Mention two drugs belonging to the following groups:**

- 5A. Sedatives
- 5B. ACE Inhibitors
- 5C. Hypolipidemics

(1 mark × 3 = 3 marks)

6. **List two drugs used in the following conditions:**

6A. Cough

6B. Type 2 Diabetes mellitus

6C. Peptic ulcer

6D. Angina

6E. HIV infection

(1 mark  $\times$  5 = 5 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2015

SUBJECT: MEDICINE  
(2012 SCHEME)

Monday, June 22, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

 Answer ALL questions:

1. Define angina and briefly describe the management.
2. Etiology, clinical features and management of lung abscess.
3. Enumerate the types of jaundice and describe the approach to jaundice.
4. Discuss the clinical value of examination of radial and carotid pulses at bedside.
5. Enumerate the causes of hematuria and describe briefly the approach to hematuria.

(8 marks × 5 = 40 marks)





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# MANIPAL UNIVERSITY

## SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2015

**SUBJECT: SURGERY**  
**(2012 SCHEME)**

Wednesday, June 24, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

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1. Discuss clinical features and relevant investigations in a case of Hydatid disease of liver.  
(8 marks)
2. Discuss causes, types and clinical features of renal stones. Mention relevant investigations.  
(8 marks)
3. Write clinical features and investigations of amoebiasis.  
(8 marks)
4. Classify ulcers. Make a labelled diagram of an ulcer. Describe the stages of ulcer formation.  
(8 marks)
5. **Write short notes on:**
  - 5A. Differentiate hematemesis and hemoptysis
  - 5B. Define intermittent claudication.

(4 marks × 2 = 8 marks)



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# MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2015

SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES  
(2012 SCHEME)

Friday, June 26, 2015

Time: 10:00-11:30 Hrs.

Max. Marks: 40

☞ Answer ALL questions.

1. Detail note on definition, indication, contraindication, procedure and complication of cisternal puncture.
2. Write short note on the treatment in condition of contrast reaction in Medical Imaging.
3. Detail note on definition, indication, contraindication and complication of fallopian tube recanalization.
4. Write short note on characteristics influencing coating of Barium Contrast media in detail.
5. **Write short notes on:**
  - 5A. Compare the filming in barium meal single and double contrast study
  - 5B. Classification of catheters in detail

(8 marks × 5 = 40 marks)

