

MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013
SUBJECT: PATHOLOGY AND MICROBIOLOGY

Monday, June 10, 2013

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 leukemia. Classify acute leukemias. Add a note on the clinical features of acute leukemia.
(1+4+3 = 8 marks)
2. Define neoplasia. Write the differences between benign and malignant tumours.
(2+5 = 7 marks)
3. **Write short notes on:**
 - 3A. Secondary tuberculosis
 - 3B. Definition and examples of atrophy and hypertrophy
 - 3C. Aetiology and clinical features of vitamin B12 deficiency anaemia
 - 3D. Healing by second intention
 - 3E. Fate of thrombus(5×5 = 25 marks)

SECTION – 'B': MICROBIOLOGY : 40 MARKS

4. Define and classify immunity. Discuss in detail acquired immunity.
(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 flagella
 - 6B. Sources and routes of spread of infections
 - 6C. Morphological classification of fungi with examples
 - 6D. Antibiotic sensitivity testing
 - 6E. Bacterial growth curve(5×5 = 25 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013

SUBJECT: PHARMACOLOGY

Friday, June 14, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- 1A. Explain the mechanism of action of aspirin.
1B. Enumerate four commonly used NSAIDs other than aspirin and list any four therapeutic uses of NSAIDs. (2+4 = 6 marks)
2. Describe the mechanism of action and one therapeutic use of statins. (2 marks)
3. Enumerate two advantages and two disadvantages of intramuscular route of drug administration. (2 marks)
4. **Explain the basis for the following:**
4A. Levodopa is combined with carbidopa in the treatment of Parkinsonism
4B. Allopurinol is used in the management of chronic gout
4C. Corticosteroids should not be stopped abruptly after prolonged use
4D. Combination of drugs are used in the treatment of pulmonary tuberculosis
4E. Use of salbutamol in bronchial asthma (2×5 = 10 marks)
5. List three classes of anti HIV drugs with one example for each class. (3 marks)
6. **Explain the following terms with an example:**
6A. First pass metabolism
6B. Chemoprophylaxis
6C. Drug antagonism (2×3 = 6 marks)
7. Classify skeletal muscle relaxants with an example for each class. (3 marks)
8. Enumerate two anticholinergic drugs and two uses of any one of them. (2 marks)
9. Explain the mechanism of action of nitrates in angina. (2 marks)
10. Explain the mechanism of action and one therapeutic use of cotrimoxazole. (2 marks)
11. Enumerate two each drugs useful in epilepsy and peptic ulcer. (2 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013
SUBJECT: FORENSIC MEDICINE

Monday, June 24, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **All questions are compulsory.**

1. Essay questions:

1A. Define consent. Explain the ingredients of informed consent.

(2+3 = 5 marks)

1B. Outline the procedure involved in disciplinary action against a doctor involved in "Professional Misconduct".

(5 marks)

2. Write short notes on:

2A. Vicarious liability

2B. Res ipsa loquitur

2C. Therapeutic privilege

2D. Medical significance of ages 18 to 21 yrs

2E. Criminal negligence

2F. Functions of Medical Council of India

2G. Valid consent

2H. Civil negligence

2I. Warning and warning notice

2J. Respondeat superior doctrine

2K. Forensic Radiology

2L. Informed refusal

(2½×12 = 30 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013

SUBJECT: ENT AND ORTHOPAEDICS

Wednesday, June 12, 2013

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. Enumerate clinical features of zygoma fractures. Discuss in detail regarding its radiologic investigations.
(4+4 = 8 marks)
2. Enumerate the causes of hoarseness. Discuss in detail regarding its radiologic investigations.
(4+4 = 8 marks)
3. Enumerate the complications of chronic suppurative otitis media. Discuss in detail regarding radiologic investigations of its extra cranial complications.
(3+5 = 8 marks)
4. Enumerate the causes of epistaxis. Discuss regarding the radiological investigation of a case of epistaxis.
(3+5 = 8 marks)
5. Discuss the etiopathogenesis of acute maxillary sinusitis. Discuss regarding the radiological investigation of a case of acute maxillary sinusitis.
(3+5 = 8 marks)

SECTION – 'B' : ORTHOPAEDICS : 40 MARKS

6. What is septic arthritis? Describe the radiological features of Tom Smith's Arthritis.
 7. Enumerate eight complications of fractures.
 8. What is sprain? How would you provide first aid to a patient with ankle sprain?
 9. What is ultrasound? What is its role in assessment of a trauma victim?
 10. Arthrogram
- (8×5 = 40 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013
SUBJECT: MEDICINE
Monday, June 17, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer ALL questions:

1. How do you approach a case of Cholecystitis? Describe types, clinical features and radiological investigations required. (8 marks)
2. Describe the role and indications of Ryle's tube and ICD tube. (8 marks)
3. How do you approach a case of lung abscess? (8 marks)
4. Describe the principles related to pulse, BP and temperature monitoring. (8 marks)
5. Describe the types, causes and clinical features of Renal failure. (8 marks)



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MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013

SUBJECT: SURGERY

Wednesday, June 19, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. Write clinical features and investigations of amoebiasis. (8 marks)

2. Describe the pathophysiology, causes and clinical features of Acute Appendicitis. Mention relevant investigations. (8 marks)

3. What are the causes of DYSPHAGIA. Write clinical features and investigations of the same. (8 marks)

4. Discuss causes, types and clinical features of renal stones. Mention relevant investigations. (8 marks)

5. **Write in short:**
 - 5A. Enumerate causes of hepatomegaly
 - 5B. Enumerate causes of hematemesis(4×2 = 8 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2013
SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Friday, June 21, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL questions.**

1. Detail note on definition, indication, contraindication and complication of I.V.U.
2. Write short note on Percutaneous Transluminal Angiography in detail with diagram.
3. Write short note on contrast reaction related and unrelated to Contrast Media.
4. Detail note on definition, indication, contraindication and complication of Dacrocystography.
5. **Write short notes on:**
 - 5A. How to prepare the Barium Suspension?
 - 5B. M.R. Myelography

(8×5 = 40 marks)

