

MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009
SUBJECT: PATHOLOGY AND MICROBIOLOGY

Monday, June 01, 2009

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- ✍ Use **SEPARATE ANSWER BOOKS** for each section.
✍ Answer all the question.

SECTION – 'A' : PATHOLOGY : 40 MARKS

1. Define and classify anemia. Describe the aetiology and clinical features of nutritional anemia.
(1+2+3+2 = 8 marks)

2. Define shock. What are the types of shock? Describe the pathogenesis of septic shock.
(1+2+4 = 7 marks)

3. Write short notes on the following:
 - 3A. Factors affecting wound healing
 - 3B. Haemophilia
 - 3C. Phagocytosis
 - 3D. Primary tuberculosis
 - 3E. Spread of tumors.(5×5 = 25 marks)

SECTION – 'B' : MICROBIOLOGY : 40 MARKS

- 4A. Match the following:

Part – I

- 1) UTI
- 2) Tuberculosis
- 3) Typhoid
- 4) Dysentery

Part – II

- a) Mycobacterium
- b) Shigella
- c) E.coli
- d) Salmonella

(1×4 = 4 marks)

- 4B. Fill in the blanks:

- i) _____ is a live attenuated bacterial vaccine.
- ii) Cocci arranged in chains are called _____.
- iii) Sterilization control for hot air oven _____.
- iv) Dimorphic fungus is exemplified by _____.

(1×4 = 4 marks)

5. Define hospital acquired infection. Enumerate various hospital-acquired infections. Add a note on control of hospital-acquired infections.
(1+4+3 = 8 marks)
6. Describe the structure of a bacterial cell in detail with a neat labelled diagram.
(4+4 = 8 marks)
7. Write short notes on:
- 7A. Modes of transmission of infection.
- 7B. Chemical disinfection.
(4×2 = 8 marks)
8. Write briefly about:
- 8A. Sterilization by Radiation.
- 8B. DPT Vaccine.
- 8C. Opportunistic infection.
- 8D. Tyndallisation.
(2×4 = 8 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009
SUBJECT: ENT AND ORTHOPAEDICS

Tuesday, June 02, 2009

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. Classify Le Fort fracture. Describe its radiological features.
(4+4 = 8 marks)
2. Enumerate the causes of dysphagia. Discuss in detail regarding its radiological investigation.
(4+4 = 8 marks)
3. Describe the types of temporal bone fracture. Discuss in detail its radiological findings.
(3+5 = 8 marks)
4. Classify thyroid malignancies. Discuss the role of ultrasound in thyroid malignancies.
(3+5 = 8 marks)
5. What is osteomeatal complex (OMC)? Why are coronal cuts preferred in CT OMC?
(3+5 = 8 marks)

SECTION – 'B' : ORTHOPAEDICS : 40 MARKS

6. What are the common sites of skeletal tuberculosis?
What are the radiological features of Tuberculosis of the Spine?
7. What are the early complications of an open fracture?
What are the special precautions for handling a patient with open fracture of tibia?
8. Draw the diagram of Bony anatomy of Ankle joint.
What are the routine and special radiographs for imaging a patient with third degree sprain of ankle joint?
9. External fixators.
10. Enumerate the imaging investigations required for assessment of an unconscious poly trauma victim.

(8×5 = 40 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009
SUBJECT: FORENSIC MEDICINE

Wednesday, June 03, 2009

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- ✍ **All questions are compulsory.**
✍ **Draw labeled diagram wherever necessary.**

1. Define Consent. Describe its various types. Write a note on Informed Consent.
(1+2+2 = 5 marks)
2. What is Negligence? What are its types? Write a note on Criminal negligence.
(1+2+2 = 5 marks)
3. Explain:
 - 3A. Medical maloccurrence
 - 3B. Res ipsa loquitor
 - 3C. Medical significance of ages 18 to 21 years.
 - 3D. Loco parentis(2½×4 = 10 marks)
4. Write short notes on:
 - 4A. Informed Refusal
 - 4B. Vicarious liability
 - 4C. Therapeutic privilege
 - 4D. Therapeutic Misadventure(2½×4 = 10 marks)
5. Explain:
 - 5A. Novus Actus interveniens
 - 5B. Penal Erasure
 - 5C. Product liability
 - 5D. Warning and Warning Notice(2½×4 = 10 marks)



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009
SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Thursday, June 04, 2009

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- ✍ **Answer all questions.**
- ✍ **Each question carries 8 marks.**

1. Write the indication, contraindication and filming for Lumbar myelogram.
2. Describe indication, contraindication and procedure for barium enema.
3. Describe single contrast Barium Swallow.
4. Describe FTR with diagrams.
5. Write short notes on the following:
 - 5A. Dacrocystography.
 - 5B. Sialography.



MANIPAL UNIVERSITY
SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009
SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

Friday, June 05, 2009

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer **ALL** questions.

1. Define CT Number. Write a note on Image display in CT.
(8 marks)

2. Write a note on modes of ultrasonic image display.
(8 marks)

- 3A. Explain the anatomy of urinary tract with the radiographic land markings.
- 3B. Describe the view for KUB with indication and preparation.
(4×2 = 8 marks)

4. List the radiographic views for Sacroiliac joint. Explain posterior oblique view with related anatomy.
(8 marks)

5. List the radiographic views for upper respiratory tract and explain lateral view with related anatomy.
(8 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: MEDICINE

Saturday, June 06, 2009

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ **Answer ALL the questions.**

1. Define Jaundice. Enumerate the types of Jaundice.
(8 marks)
2. Define CPR and its role.
(8 marks)
3. Define Angina Pectoris. Describe the clinical features of Angina Pectoris.
(8 marks)
4. Highlight the clinical features of Tuberculosis.
(8 marks)
5. Enumerate the causes of Haematuria and how will you investigate a case of Haematuria.
(8 marks)



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MANIPAL UNIVERSITY

SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: SURGERY

Monday, June 08, 2009

Time: 10:00-11:30 Hrs.

Max. Marks: 40

✍ Answer **ALL** questions.

1. Describe the pathophysiology, causes and clinical features of Acute Appendicitis. Mention relevant investigations.
(8 marks)
2. Discuss causes, types and clinical features of renal stones. Mention relevant investigations.
(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 in short:
 - 5A. Enumerate causes of splenomegaly.
 - 5B. Differentiate hematemesis and hemoptysis.

(4×2 = 8 marks)

