

MANIPAL UNIVERSITY

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

SUBJECT: PATHOLOGY AND MICROBIOLOGY

Thursday, December 10, 2009

Time: 10:00-13:00 Hrs.

Max. Marks: 80

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

SECTION – ‘A’ : PATHOLOGY : 40 MARKS

1. Define anaemia. Give the classification of anaemia. Describe the clinical features and basic investigations done in iron deficiency anemia. (1+2+5 = 8 marks)

2. Define neoplasia. Describe the differences between benign and malignant tumors. (2+5 = 7 marks)

3. Write short notes on:
 - 3A. Embolism
 - 3B. Necrosis
 - 3C. Granulomatous inflammation
 - 3D. Hemophilia
 - 3E. Primary tuberculosis(5×5 = 25 marks)

SECTION – ‘B’ : MICROBIOLOGY : 40 MARKS

- 4A. Match the following:

Part – I

- 1) Filtration
- 2) Autoclave
- 3) Hot Air Oven
- 4) Inspissation

Part – II

- a) Glasswares
- b) L J medium
- c) Serum
- d) Nutrient agar

(1×4 = 4 marks)

- 4B. Fill in the blanks:

- i) Organ of locomotion in bacteria is _____.
- ii) Holding period of a laboratory autoclave is _____ minutes at 121°C.
- iii) Plastic syringes are sterilised by _____.
- iv) Highly resistant, resting stage of bacteria is _____.

(1×4 = 4 marks)

5. Define and classify Sterilization. Write briefly about the Autoclave.

(1+3+4 = 8 marks)

6. Classify parasites of medical importance. Give one example for each type.

(4+4 = 8 marks)

7. Write short notes on:

7A. Antibiotic Susceptibility test.

7B. Nosocomial infection.

(4×2 = 8 marks)

8. Write briefly about:

8A. Chemical disinfectants giving two examples.

8B. Bacterial capsule.

8C. Anaerobic culture methods.

8D. MMR Vaccine.

(2×4 = 8 marks)



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MANIPAL UNIVERSITY

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

SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

Friday, December 11, 2009

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. Why is expiratory film of chest taken? How is high kVp radiograph of chest taken?
(8 marks)
2. Write the radiological landmarks of skull. Describe skull PA, AP and lateral views.
(8 marks)
3. Describe the different views for knee joint.
(8 marks)
4. Describe the artifacts found in ultrasonography.
(8 marks)
5. Write about instrumentation in CT.
(8 marks)

