

# I B.Sc MEDICAL MICROBIOLOGY DEGREE EXAMINATION

## PAPER I – ANATOMY

### (Model Question Paper)

ÉAnswer all Questions.

ÉDraw Diagrams wherever necessary.

**TIME: 2 hrs**

**MAX.MARKS: 50**

- |     |                                    |             |
|-----|------------------------------------|-------------|
| I   | <b>Essay</b>                       | (1×15 = 15) |
|     | 1. Describe cerebrum in detail.    |             |
| II  | <b>Short Essay</b>                 | (1 x10 =10) |
|     | 2. Describe the chambers of heart. |             |
| III | <b>Short Notes</b>                 | (3×5 = 15)  |
|     | 3. Thyroid gland                   |             |
|     | 4. Prostate gland.                 |             |
|     | 5. Anatomy of middle ear           |             |
| IV  | <b>Answer Briefly</b>              | (5×2 = 10)  |
|     | 6. Hyalin cartilage                |             |
|     | 7. Broncho pulmonary segments      |             |
|     | 8. Pancrease                       |             |
|     | 9. Nephrones                       |             |
|     | 10. Lateral wall of nasal cavity   |             |

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## PAPER II PHYSIOLOGY

### (Model Question paper)

ÉAnswer all Questions.

ÉDraw Diagrams wherever necessary

**TIME: 2 hrs**

**MAX.MARKS: 50**

- I. **Essay** (1×15= 15)
  1. Define erythropoiesis. Describe stages of erythropoiesis and explain the factors essential.
- II. **Short Essay** (1×10= 10)
  2. Describe the functions of glucocorticoids
- III. **Short Notes** (3×5= 15)
  3. Difference between first and second heart sound
  4. Explain the functions of basal ganglia
  5. Micturition reflex.
- IV. **Answer Briefly** (5×2= 10)
  6. Functions of HCl in the stomach
  7. Hypoxia
  8. Webers test
  9. Functions of CSF
  10. Vital capacity

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## PAPER III GENERAL BIOCHEMISTRY

### (Model Question Paper)

ÉAnswer all Questions.

ÉDraw Diagrams wherever necessary

**TIME: 2 hrs**

**MAX.MARKS: 50**

**Essay** (1×15= 15)

1. Define carbohydrate. How are they classified? List some important functions of carbohydrates.

**Short Essay** (1×10= 10)

2. Classify vitamins. Give a brief description of functions of fat soluble vitamins.

**Short Notes** (3×5= 15)

3. Colloids
4. Properties of Enzymes.
5. Plasma proteins

**Answer Briefly** (5×2= 10)

6. PUFA
7. Nucleotides
8. Diffusion
9. Buffers
10. Osmosis

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## PAPER V – GENERAL METHODOLOGY

### (Model Question Paper)

ÉAnswer all Questions.

ÉDraw Diagrams wherever necessary.

**TIME: 3 hrs**

**MAX.MARKS: 100**

**Essay** (2×15= 30)

1. Describe principle, parts and use of electron microscopy
2. Define sterilization, classify sterilization and write in detail about moist heat sterilization.

**Short Essay** (2×10= 20)

3. Describe in detail about safety measures in a laboratory
4. Briefly describe about the organization of a clinical laboratory

**Short Notes** (6×5= 30)

5. Anticoagulants
6. Quality control.
7. Storage and handling of dangerous chemicals
8. Preparation of cleaning solution for glass wares
9. Autoclave
10. Calibration of pipettes

**Answer Briefly** (10×2= 20)

11. Hot air oven
12. Buffer
13. Culture media
14. Kipps apparatus
15. Production of chemically pure water
16. Handling of animals
17. Robert kotch
18. Endospore
19. First Aid
20. Handling of animals.