# I B.Sc MEDICAL BIOCHEMISTRY DEGREE EXAMINATION

## PAPER I – ANATOMY

## (Model Question Paper)

ÅAnswer all Questions.

ÅDraw Diagrams wherever necessary.

**TIME: 2 hrs** **MAX.MARKS: 50**

**I Essay** (2×10= 20)

1. Describe cerebrum in detail anatomy of middle ear in detail.
2. Describe the chambers of heart .

**II Short Notes** (2×5= 10)

3. Thyroid gland
4. Prostate gland.

**III Answer Briefly** (10×2= 20)

5. Hyalin cartilage
6. Synovial joint
7. Broncho pulmonary segments
8. Pancrease
9. Right atreium
10. Nephrones
11. Pericardium
12. Papillae of tongue
13. Neurons
14. Lateral wall of nasal cavity

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## PAPER II PHYSIOLOGY

## (Model Question paper)

ÅAnswer all Questions.

ÅDraw Diagrams wherever necessary

**TIME: 2 hrs** **MAX.MARKS: 50**

**I Essay** (2×10= 20)

1. Define cardiac cycle by giving the normal value of time of each phase. Add a note on arterial pulse.
2. Explain the mode of transport of oxygen in the blood. Add a note on hypoxia

**II Short Notes** (2×5= 10)

3. Glomerular filtration rate
4. Composition and functions of cerebrofinal fluid.

**III Answer Briefly** (10×2= 20)

5. Osmotic fragility
6. Peristalsis
7. Test for pregnancy
8. Ear ossicles
9. Plasma proteins
10. Spermatogenesis
11. Conducting system of heart
12. Functions of placenta
13. Sacromere
14. Presbyopia

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## PAPER III GENARAL BIOCHEMISTRY

## (Model Question Paper)

ÅAnswer all Questions.

ÅDraw Diagrams wherever necessary

**TIME: 2 hrs** **MAX.MARKS: 50**

**I Essay** (2×10= 20)

1. Define and classify carbohydrate. List some imported functions of carbohydrates.
2. Classify vitamins. Mention the functions and deficiency disorders of fat soluble vitamins.

**II Short Notes** (2×5= 10)

3. Colloids
4. Properties of Enzymes.

**III Answer Briefly** (10×2= 20)

5. Plasma membrane
6. Plasma proteins
7. PUFA
8. NA-$K^+$ pump
9. Nucleotides
10. Plasma proteins
11. Diffusion
12. Buffers
13. Osmosis
14. $P^H$

# I B.Sc MEDICAL BIOCHEMISTRY DEGREE EXAMINATION

## PAPER V – GENERAL METHODOLOGY

## (Model Question Paper)

ÅAnswer all Questions.

ÅDraw Diagrams wherever necessary.

**TIME: 3 hrs** **MAX.MARKS: 100**

**I Essay** (2×15= 30)

1. Describe principle, parts and use of electron microscopy
2. Define sterilization, classify sterilization and add a note on moist heat sterilization.

**II Short Essay** (2×10= 20)

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

**III 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

**IV 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.