

**BLDE (DEEMED TO BE UNIVERSITY)**

July-2022

**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time:3 Hours]

[Max.Marks:80]

**I SEMESTER**

**PAPER – I (Anatomy)**

**QP CODE: 9171**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10 X 3 = 30 Marks**

1. Describe Axilla under following headings-a) Boundaries b) Contents c) Axillary artery and its branches (3+4+3)
2. Describe Temporo- mandibular joint under following headings- a) Type and articular surfaces b) Capsule and ligaments c) relations d) Movements and muscles producing movements e) Applied anatomy (1+3+2+3+1)
3. Describe the interior of right atrium in detail. Add a note on Coronary sinus.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Nasopharynx.
5. Describe the microscopic structure of T S of bone.
6. Synovial joints- Types and components.
7. Oogenesis.
8. Primitive streak- formation and fate.
9. Describe the microscopic structure of Spleen.
10. Deltoid – origin, insertion, nerve supply, action and structures under cover of deltoid.
11. Superficial palmar arch of hand.
12. Mediastinal surface of left lung.
13. Carotid triangle of neck- boundaries and contents.

July-2022

**BLDE (DEEMED TO BE UNIVERSITY)**

**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time:3 Hours]

[Max.Marks:80]

**I SEMESTER**

**PAPER – II (Physiology)**

**QP CODE: 9172**

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

**Long Questions**

**10 X 3 = 30 Marks**

1. Define cardiac cycle. With the help of a neat & labeled diagram, explain various mechanical & pressure changes that occur during cardiac cycle
2. Define synapse. Give its classification. Enlist its properties. Explain any THREE of them in detail
3. Define erythropoiesis. With the help of neat & labeled diagrams, discuss various stages of it. Add a note on factors influencing it.

**Short Essays:**

**5 X 10 = 50 Marks**

4. What is cardiac output? List the factors influencing it. Explain any two of them in detail
5. What is spermatogenesis? With the help of neat & labeled diagram, describe various stages of it.
6. Define errors of refraction. Explain their corrections in brief
7. Define neuromuscular junction. With the help of a neat & labeled diagram, explain the events associated with transmission of impulse across it
8. Define blood group. Give its classification. Explain in brief their significance
9. Discuss various movements that occur at small intestine & mention their significance
10. Define GFR. Give its normal value. List the factors influencing it
11. Passive transport across cell membrane
12. Functions of thyroid hormones
13. Hemoglobin Oxygen dissociation curve

July-2022

**BLDE (DEEMED TO BE UNIVERSITY)**  
**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time:3 Hours]

[Max.Marks:80]

**I SEMESTER**  
**PAPER – III (Biochemistry)**  
**QP CODE: 9173**

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

**Long Questions**

**10X3 = 30 Marks**

1. Describe the structure of biological membranes. Discuss the various transport mechanisms across membranes with suitable examples.
2. What are carbohydrates? Classify them with suitable examples. Give the biological importance of carbohydrates.
3. What are phospholipids? Give the classification of phospholipids. Add a note on functions of phospholipids.

**Short Essays:**

**5 X 10 = 50 Marks**

4. What are the bases in the nucleic acid? Differentiate between Nucleosides and Nucleotides
5. What are Lipoproteins? Write in detail about Classification and functions of lipoproteins
6. What are reducing sugars? Explain in detail Benedict's test.
7. Biologically important peptides.
8. Give composition of Sucrose. Justify why Sucrose is called as invert sugar.
9. What are Proteins? Write in detail about biological importance of proteins.
10. Define Acids, Bases, Buffers and pH. What is the pH blood, Saliva, Gastric juice and urine
11. What is Cholesterol? Give its important functions.
12. Differentiate between DNA and RNA
13. Structure and functions of - Mitochondria, Endoplasmic Reticulum, Golgi complex, Peroxisomes, Lysosome

*July-2022*

**BLDE (DEEMED TO BE UNIVERSITY)**  
**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time: 3 Hours]

[Max.Marks:80]

**I SEMESTER**

**PAPER - IV (Research Methodology & Biostatistics)**

**QP CODE: 9174**

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

**Long Questions**

**10X3 = 30 Marks**

1. Define Research. Classify Research design and explain the steps of cohort study
2. Classify and explain measurement scales in research with suitable examples.
3. Explain the techniques involved in defining a Research problem.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Write precautions for writing research reports
5. Discuss the objectives & purpose of the research
6. Discuss the methods of data collection
7. Discuss Bias in research with examples
8. Discuss the errors in measurement
9. Discuss measures of central tendency
10. Discuss the need of study designs
11. Discuss measures of dispersion
12. Write differences in Qualitative & Quantitative data
13. What is confounding and how to prevent it in research?