

BLDE (DEEMED TO BE UNIVERSITY)**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**10X3 = 30 Marks**

1. Describe shoulder 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)
2. Describe the gross anatomy of thyroid gland under following headings a) Coverings b) Presenting parts and relations c) Blood Supply d) Applied Anatomy. (1+4+3+2)
3. Describe lateral wall of nose in detail. Add a note on blood supply and nerve supply.

Short Essays:**5 X 10 = 50 Marks**

4. Deltoid – origin, insertion, nerve supply, action and structures under cover of deltoid.
5. Describe Bronchopulmonary segments.
6. Describe the microscopic structure of Thymus.
7. Primitive streak.
8. Synovial joints- Types and components.
9. Describe the microscopic structure of thin skin.
10. Describe the Effects of Fertilization.
11. Carotid triangle of neck- boundaries and contents.
12. Pericardial sinuses.
13. Extra ocular muscles- origin, insertion and nerve supply.

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I SEMESTER

PAPER – II (Physiology)

QP CODE: 9172

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Long Questions

10 X 3 = 30 Marks

1. Define arterial blood pressure. Give normal values of its components. Discuss various mechanisms of its regulation
2. What is a receptor? Enlist properties of receptors. Explain any THREE of them in detail
3. With the help of neat & labeled diagrams, explain morphology & functions of WBCs.

Short Essays:

5 X 10 = 50 Marks

4. What is meant by cardiac cycle? Draw a neat & labeled diagram to depict a normal cardiac cycle. Discuss various left ventricular pressure changes that occur during cardiac cycle.
5. Define human menstrual cycle. Discuss various endometrial & ovarian changes that occur during a normal menstrual cycle
6. With the help of a neat & labeled diagram, discuss about visual pathway
7. What is meant by sarcomere? With the help of a neat & labeled diagram, explain its morphology
8. What is lung surfactant? Discuss about its composition & significance
9. Functions of saliva
10. With the help of a neat & labeled diagram to depict innervation of urinary bladder, explain process of micturition
11. Active transport across cell membrane
12. Functions of growth hormone
13. With the help of a neat & labeled diagram showing organization of respiratory neurons in brain, explain neural regulation of respiration

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PAPER – III (Biochemistry)

QP CODE: 9173

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Long Questions

10X3 = 30 Marks

1. What are Proteins? Write in detail about the structural organization of proteins.
2. Enumerate the Fluid mosaic Model of Cell Membrane. Add a note on various mechanisms of transport across cell membrane.
3. Define Lipids Classify them with suitable examples. Give importance of Lipids.

Short Essays:

5 X 10 = 50 Marks

4. Disaccharides.
5. Gene, Genetic code. What is Chargaff's Rule?
6. Mucopolysachharides
7. Isoelectric pH and its importance
8. Write the name, principle and significance of any five precipitation reactions of proteins.
9. Types and functions of RNA
10. Structure and functions of - Ribosome, Nucleolus, Centrosome, chromosomes, Nucleosomes, Histones.
11. Define with suitable examples:
 1. Reducing and nonreducing sugars and
 2. Saturated and Unsaturated Fatty acids
12. Explain the Watson & Crick Model of DNA
13. Define pH, Acids and Bases. What are buffers?

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I SEMESTER

PAPER – IV (Research Methodology & Biostatistics)

QP CODE: 9174

Your answer should be specific to the questions asked.

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Long Questions

10X3 = 30 Marks

1. Classify Research designs and explain the steps of Random control trial
2. Write different types of sampling designs. Explain any one sampling technique with example.
3. Classify and explain measurement scales in research with suitable examples.

Short Essays:

5 X 10 = 50 Marks

4. Describe Normal distribution curve
5. Explain multistage sampling design
6. What is pilot study
7. Write differences in Qualitative & Quantitative data
8. Discuss the objectives & purpose of the research
9. Write precautions for writing research reports
10. Discuss the need of study designs
11. Discuss Bias in research with examples
12. Explain Interval & Ratio scales with examples
13. What is the concept of Blinding in RCT