

MSc  
II

JAN-2024

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

[Time: 3 Hours]

[Max.Marks: 80]

**II SEMESTER**  
**PAPER – I (MEDICAL ANATOMY)**  
**QP CODE: 9006**

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

**Long Questions**

**10X3 = 30 Marks**

1. Describe hip joint under the following headings: type, articular surfaces, ligaments, relations and blood supply.
2. Describe in detail the venous drainage of lower limb.
3. Describe kidney under the following headings: location, coverings, relations and blood supply.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Adductor canal
5. Histology of urinary bladder
6. Lateral longitudinal arch of the foot
7. Histology of fundus of stomach
8. Inguinal group of lymph nodes
9. Gluteus Maximus muscle
10. Anastomosis around knee joint
11. Supports of Uterus
12. Describe interior of caecum
13. Histology of liver

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**II SEMESTER**

**PAPER – II (MEDICAL PHYSIOLOGY)**

**QP CODE: 9007**

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 steps of biosynthesis and functions of thyroid hormones. Add a note on cretinism.
2. Define synapse. Enumerate the properties of synapse. Explain any two properties.
3. Define menstrual cycle. Describe the uterine changes occurring during menstrual cycle.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Composition and functions of saliva
5. Draw a neat labeled diagram of nephron. Differentiate between cortical and juxtamedullary nephrons
6. What are the types of deafness? Enumerate the tuning fork tests to assess deafness
7. Functions of aqueous humor
8. Micturition reflex
9. With a neat labeled diagram describe the olfactory pathway
10. Movements of small intestine
11. Spermatogenesis
12. Actions of insulin
13. Define glomerular filtration rate (GFR). Add a note on factors affecting GFR

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**II SEMESTER**

**PAPER – III (MEDICAL BIOCHEMISTRY)**

**QP CODE: 9008**

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 synthesis and secretion of thyroxine adds a note on TSH stimulation test.
2. What are differences between competitive and non-competitive inhibition? Give two examples of competitive inhibition
3. Describe the source, daily requirement, absorption, biochemical functions and deficiency manifestations of iron.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Mechanism of action of steroid hormone
5. Isoenzyme and their clinical importance citing two examples
6. Functions of sunshine vitamin
7. Trace elements
8. Nitrogen balance
9. Folate trap
10. Coenzymes and suitable examples
11. Km value of an enzyme and its significance with suitable examples
12. Specific dynamic action
13. Function of zinc and copper

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M.SC. IN BIOCHEMISTRY**

[Time: 3 Hours]

[Max.Marks: 80]

**II SEMESTER**

**PAPER – IV (Research Methodology & Ethics)**

**QP CODE: 9009**

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 Research & Classify Research designs. Explain the cross-sectional study
2. Explain different types of sampling technique with suitable examples.
3. Discuss the differences in Qualitative & Quantitative data

**Short Essays:**

**5 X 10 = 50 Marks**

4. What is patient Autonomy in research?
5. Explain Mean, Mode & Median
6. What is Blinding in trails
7. Explain Normal distribution curve
8. What are the criteria of good research
9. Explain Nominal & Ordinal scale with examples
10. Discuss Bias in research with examples
11. Discuss the need of study designs
12. Discuss the importance of tests of significance
13. Write precautions for writing research reports