

JAN-2024  
BLDE (DEEMED TO BE UNIVERSITY)

M.Sc. Allied Health Sciences (Medical Biochemistry)

[Time: 3 Hours]

[Max.Marks:80]

VI SEMESTER

PAPER – I (Clinical and Diagnostic Biochemistry)

QP CODE: 9066

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

Long Questions

10X3 = 30 Marks

1. Define buffers. List the body buffer systems and explain the role of kidneys in regulating the Acid-base balance in the body.
2. Define creatinine clearance. Give the details of the procedure, calculation and interpretation of Creatinine clearance test.
3. What are functions of liver? Explain the various liver function tests

Short Essays:

5 X 10 = 50 Marks

4. Give the detailed structure of Collagen and the disorders associated with collagen.
5. Biochemistry of aging.
6. What are prion diseases? List the prion diseases in humans.
7. Write a note on the Assessment of fetal maturity.
8. What is Hypernatremia and give the clinical features and/complications.
9. Pancreatic enzymes and their clinical utility
10. Proteinuria.
11. Anion gap,
12. Collagen.
13. Cystatin C.

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

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**VI SEMESTER**

**PAPER – II (Contemporary Topics in Biochemistry)**

**QP CODE: 9067**

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

**Long Questions**

**10X3 = 30 Marks**

1. How neural proteins mediates physiological and biochemical response
2. Describe in brief & neurontrophins and add a note on metabolism in the nerve fibres
3. Describe in brief the physical characteristics of radioisotopes. Add a note on Diagnostic application of radioactive traces in medical sciences.

**Short Essays:**

**5 X 10 = 50 Marks**

4. Industrial hazards and preventive measures
5. Free radicals generation and effect on cellular integrity
6. Write in brief about tracer techniques
7. Genomic library
8. Explain heavy metal toxicity
9. Explain characteristics of neurotransmitter
10. Alzheimer's disease and Parkinson.
11. Biological radiation effect
12. Radioactive decay and half-life
13. Microsatellite Markers