

B.Sc. DEGREE EXAMINATION, APRIL 2020
II Year III Semester
Biochemistry

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Define enzymes. Give two examples
2. What are prosthetic groups. Give two examples.
3. Give two general reactions of monosaccharide.
4. What is electron transport chain?
5. Define denaturation.
6. What is meant transamination?
7. Name the unsaturated fatty acids
8. Define ketogenesis.
9. What are nucleic acids?
10. Give the structure of purines and pyrimidines.
11. What is meant by nucleotides?
12. Draw the structure of an amino acid.

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Explain any five classification of enzymes.
14. Briefly explain glycolysis.
15. Explain urea cycle.
16. Enumerate on the steps for β -oxidation of fatty acids.
17. Explain biosynthesis of cholesterol.
18. Write short notes on galactosemia and fructosuria.
19. Enumerate on the basic concepts on nutrigenomics.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Describe the role of vitamin B complex as co-enzymes.
21. Explain TCA cycle in detail.
22. Discuss on the types of protein structures.
23. Elaborate on the biosynthesis of fatty acids
24. Describe the inborn errors of protein metabolism

B.Sc. DEGREE EXAMINATION, APRIL 2020
II Year III Semester
Biochemistry

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Define enzymes. Give two examples
2. What are prosthetic groups. Give two examples.
3. Give two general reactions of monosaccharide.
4. What is electron transport chain?
5. Define denaturation.
6. What is meant transamination?
7. Name the unsaturated fatty acids
8. Define ketogenesis.
9. What are nucleic acids?
10. Give the structure of purines and pyrimidines.
11. What is meant by nucleotides?
12. Draw the structure of an amino acid.

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Explain any five classification of enzymes.
14. Briefly explain glycolysis.
15. Explain urea cycle.
16. Enumerate on the steps for β -oxidation of fatty acids.
17. Explain biosynthesis of cholesterol.
18. Write short notes on galactosemia and fructosuria.
19. Enumerate on the basic concepts on nutrigenomics.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Describe the role of vitamin B complex as co-enzymes.
21. Explain TCA cycle in detail.
22. Discuss on the types of protein structures.
23. Elaborate on the biosynthesis of fatty acids
24. Describe the inborn errors of protein metabolism