

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. What is nucleotide?
2. What is RNA?
3. What is anti codon?
4. What are high energy bond?
5. Define deamination
6. What is nitrogen balance?
7. What is respiratory acidosis?
8. Give the structure of purine and pyrimidine.
9. What is active transport.
10. What is alcaptonuria.
11. Mention any four enzymes involved in glycolysis.
12. How many ATP 'S' is used in citric acid cycle.

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

Answer any **FIVE** questions

13. Enumerate the steps involved in gluconeogenesis.
14. Write a detail note on active transport.
15. Write a note on phenylketonuria.
16. Explain the β - oxidation of fatty acids.
17. Discuss the biosynthesis of ketone bodies.
18. Explain HMP shunt.
19. Explain the mechanism of action of enzymes.

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

Answer any **THREE** questions

20. Explain the formation of urea.
21. Describe the classification of amino acids along with their structure explain oxidative deamination and transamination.
22. Enumerate the steps involved in citric acid cycle.
23. Write an account on structure and functioning of DNA and RNA
24. Write in detail about inborn errors of metabolism with reference to carbohydrate.

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. What is nucleotide?
2. What is RNA?
3. What is anti codon?
4. What are high energy bond?
5. Define deamination
6. What is nitrogen balance?
7. What is respiratory acidosis?
8. Give the structure of purine and pyrimidine.
9. What is active transport.
10. What is alcaptonuria.
11. Mention any four enzymes involved in glycolysis.
12. How many ATP 'S' is used in citric acid cycle.

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

Answer any **FIVE** questions

13. Enumerate the steps involved in gluconeogenesis.
14. Write a detail note on active transport.
15. Write a note on phenylketonuria.
16. Explain the β - oxidation of fatty acids.
17. Discuss the biosynthesis of ketone bodies.
18. Explain HMP shunt.
19. Explain the mechanism of action of enzymes.

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

Answer any **THREE** questions

20. Explain the formation of urea.
21. Describe the classification of amino acids along with their structure explain oxidative deamination and transamination.
22. Enumerate the steps involved in citric acid cycle.
23. Write an account on structure and functioning of DNA and RNA
24. Write in detail about inborn errors of metabolism with reference to carbohydrate.