

(For candidates admitted from 2016 – 2021 Batch)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Part III – Allied

FUNDAMENTALS OF BIOCHEMISTRY

Time: 3 Hours

Maximum: 75 marks

SECTION A – (10 x 2 = 20)

ANSWER ALL QUESTIONS

1. What is Glycolysis?
2. Define Glycogenesis.
3. Write two functions of protein.
4. Write two ATP significance.
5. What is Bioenergetics?
6. Define Lipid metabolism.
7. Draw a structure of DNA.
8. What is Purine?
9. What is Enzymes?
10. Define allosteric inhibition.

SECTION B – (5 x 5 = 25)

ANSWER ALL QUESTIONS

11. (a) Discuss about the types of carbohydrate.
(OR)
(b) Draw and explain TCA Cycle.
12. (a) Explain the classification of protein.
(OR)
(b) Discuss the synthesis of protein metabolism.

13. (a) Write short note on Bioenergetics.

(OR)

(b) Explain the Biosynthesis of Fatty acids.

14. (a) Explain the catabolism of pyrimidine nucleotides.

(OR)

(b) Explain about the biosynthesis of Purine.

15. (a) List out the classification of enzymes.

(OR)

(b) Explain about the Michaelis model.

SECTION C – (3 x 10 = 30)

ANSWER ANY THREE QUESTIONS

16. Describe in detail about the carbohydrate metabolism.

17. Describe in detail about the amino acid its classification, structure and properties.

18. Elaborate the Bioenergetics of fatty acid.

19. Discuss about the Nucleotides with examples.

20. Describe the IUPAC classification of enzymes.
