

NOVEMBER/DECEMBER 2019

BBT21 — BIOCHEMISTRY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks



1. What is mutarotation?
2. List a few high energy compounds
3. What is denaturation?
4. Name the Enzymes of urea cycle
5. What are essential fatty acids give example.
6. Write the structure of cholesterol.
7. Draw the structure of pyrimidines.
8. Give examples of transferases
9. What are pancreatic hormones.
10. Expand PAGE.

SECTION B -- (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write a short note on disaccharides
Or
(b) Elucidate the glycogenesis pathway
12. (a) Describe the urea cycle with reactions
Or
(b) Give an account on the biological functions of proteins
13. (a) Discuss the types of glycolipids with their biological significance.
Or
(b) How are lipids digested and absorbed in our body?
14. (a) Write a note on the classification of enzymes
Or
(b) Comment on the types of DNA
15. (a) Give an account on the functions and deficiency disorders of vitamin D
Or
(b) Explain the thin layer chromatographic technique.

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SECTION C -- (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe in detail the TCA cycle
17. Give an account on the transamination and deamination
18. Elucidate the β oxidation of fatty acids.
19. Write a note on the Watson and Crick model of DNA
20. Explain the sources, functions and disorders associated with vitamin A



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