

APRIL/MAY 2019

**BBT21 — BIOCHEMISTRY**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.



Define epimer.

2. What is an amphibolic pathway?
3. List the essential amino acids.
4. Define transamination.
5. Give examples of glycolipids.
6. Draw the structure of ATP.
7. What is meant by coenzyme?
8. List the functions of lipids.
9. How do you calculate the R<sub>f</sub> value?
10. Name any two clinical symptoms associated with abnormal thyroid hormone level.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe the glycogenesis pathway.  
Or  
(b) Write a note on the digestion and absorption of carbohydrates.
12. (a) Define deamination. Explain its types briefly.  
Or  
(b) Elucidate the urea cycle.
13. (a) Discuss the classification of phospholipids.  
Or  
(b) Describe the  $\beta$ -oxidation of fatty acids.
14. (a) Explain the mechanism of enzyme action.  
Or  
(b) Comment on the types of DNA.
15. (a) Give an account on paper chromatography.  
Or  
(b) Write a short notes on the physiological functions of vitamin A.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Give a detailed account on glycolysis.
17. Describe the classification of amino acids with example.
18. Explain the biosynthetic pathway of cholesterol.
19. Outline the IUB classification of enzymes.
- How will you separate proteins by SDS-PAGE?
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