II - S - B. Pharma -

Bio. Chem. - BP - 203 T

2021

Full Marks - 75

Time - As in the Programme

The figures in the right hand margin indicate marks.

Answer ALL questions.

Group – I

Answer all questions.

1. Define competitive inhibition in enzyme action. [2

2. What are the factors which act as inhibitions of TCA cycle. [2

3. What are nucleosides. [2

4. What are glycosides. [2

5. What are amphipathic lipids. [2

6. What is a Zwitterion. [2

7. What are derived proteins. [2

8. What is terminal oxidation. [2

[Cont...

9. Define ketosis and mention the enzyme involved in it. [2

10. Write a short note on RNA polymerase. [2

Group – II

Answer any TWO questions.

1. Describe in details about various stages of transcription. [10

2. What is β-oxidation ? Give its importance. Compare α-oxidation and ω-oxidation of fatty acid. [10

3. Describe bioenergeties of glycolysis and TCA cycle. Explain its efficiency. [10

Group – III

Answer any SEVEN :

1. Describe the process of glycogenesis and glycogenolysis. [5

2. Describe mechanism of ATP formation other than oxidative phosphorylation. [5

3. Describe types and mechanism of elongation of fatty acids. [5

[Cont...

4. Explain urea cycle. How it is regulated. Describe some inherited disorders of urea cycle. [5

5. Write short notes on : [5

(a) Transamination.

(b) Deamination.

6. Write a note on inhibitors of transcription and their significance. [5

7. What are proteins ? Name the components and mention the general strucutre of proteins. [5

8. Describe the biomedical importance of cholesterol. [5

9. What are essential fatty acids ? Describe their important functions. [5

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