0041763

K19U 2200

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.) Examination, November- 2019

(2014 Admn. Onwards)

CORE COURSE IN BIOCHEMISTRY

5B07 BCH : BIOENERGETICS AND GENERAL METABOLISM

Time : 3 Hours

Max. Marks : 40

SECTION - A

Answer **all** questions. Each question carries **one** mark. **(4×1=4)**

1. Give examples for ketone bodies.
2. What are the co factors involved in TCA cycle?
3. Give examples for glucogenic amino acids.
4. What is ATP?

SECTION - B

Answer any **7** questions. Each question carries **2** marks. **(7×2=14)**

5. What is the role of carnitine in fatty acid oxidation?
6. What are triglycerides? Give an example.
7. What is gluconeogenesis?
8. What is albinism?
9. What is anabolism? Give an example.
10. What are photosystems?

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11. What is fermentation?
12. What is the function of pyruvate dehydrogenase?
13. What is chymotrypsin? What is its function?

SECTION - C

Answer any **4** questions. Each question carries **3** marks. **(4×3=12)**

14. Explain the regulation of glycolysis.
15. What is inborn errors of metabolism? Explain with any two examples.
16. What is the substrate level phosphorylation? Explain with any two examples.
17. What are uncouplers? Explain with two examples.
18. Explain urea cycle.
19. Explain the digestion of proteins.

SECTION - D

Answer any **2** questions. Each question carries **5** marks. **(2×5=10)**

20. Explain boxidation of fatty acids and its significance.
21. Discuss the reactions and energetics of TCA cycle.
22. Explain photosynthesis and its significance.
23. Describe the various experimental approaches to study metabolism.

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