

E 3682



Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2022

Fourth Semester

Complementary Course—BIOCHEMISTRY—METABOLISM—II

(Common for all Programmes having Bio Chemistry as a Complementary Subject)

(2013—2016 Admissions)

Time : Three Hours

Maximum Marks : 60

Part A (Short Answer Questions)

Answer all questions.

Each question carries 1 mark.

Write a note on :

1. Stop codons.
2. Symbiotic nitrogen fixer.
3. Atherosclerosis.
4. Metabolic water.
5. tRNA.
6. Topoisomerase.
7. Anti xerophthalmic factor.
8. Albinism.

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any six questions.

Each question carries 2 marks.

Write an account on :

9. Vit K as antihemorrhagic factor.
10. DHFR.

Turn over





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11. Biosynthesis of epinephrine.
12. Genetic code is not universal.
13. Wobble hypothesis.
14. Inborn errors of metabolism.
15. Role of RNAs in protein synthesis.
16. Water soluble vitamins.
17. Primase.
18. Functions of thyroxine.

(6 × 2 = 12)

Part C (Short Essay)

*Answer any **four** questions.
Each question carries 4 marks.*

19. Explain mechanism of intron splicing in mRNA.
20. Give an account on translocation events in translation.
21. Give the physiological functions of B vitamins.
22. Describe symbiotic nitrogen fixation mechanism.
23. Give the feedback regulation of amino acid biosynthesis.
24. Explain Knoop's β oxidation pathway.

(4 × 4 = 16)

Part D (Long Essay)

*Answer any **two** questions.
Each question carries 12 marks.*

25. Describe the mechanism of transcription.
26. Explain dietary absorption and catabolic pathway of amino acids.
27. Write an essay on classification, action and physiological functions of hormones.
28. Discuss the causes, and symptoms of major avitaminoses.

(2 × 12 = 24)

