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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2024

Fourth Semester

Complementary Course—BIO CHEMISTRY – METABOLISM II

(Common for all programmes having Bio Chemistry as a complementary subject)

[2013 to 2016 Admissions]

Time : Three Hours

Maximum : 60 Marks

Part A (Short Answer Questions)

Answer all questions.

Each question carries 1 mark.

Write a note on :

1. Keratomalacia.
2. HMG CoA reductase.
3. Snurps.
4. Feminism.
5. Ketone bodies.
6. Codon assignment.
7. Active principle in lemon peel
8. Antisterility factor.

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any six questions.

Each question carries 2 marks.

Write an account on :

9. Alkaptonuria.
10. Biosynthesis of methionine.
11. Symptoms of Beriberi.

Turn over





E 6383

12. Sources of Vitamin B12.
13. PABA.
14. Structure of Phospholipid.
15. Structured components of DNA.
16. Water soluble vitamins.
17. Biosynthesis site of epinephrine.
18. rho-dependent termination.

(6 × 2 = 12)

Part C (Short Essays)

*Answer any **four** questions.*

Each question carries 4 marks.

19. Explain the feed back regulation of amino acid biosynthesis.
20. Compare fatty acid synthesis and degradation.
21. Give an account of proteolytic enzymes of gastro intestinal tract.
22. Describe urea cycle.
23. Give the structure and components of replication fork.
24. Discuss the chemical nature of gene.

(4 × 4 = 16)

Part D (Long Essays)

*Answer any **two** questions.*

Each question carries 12 marks.

25. Give the biological role and nutritional importance of minerals.
26. Explain different types of post translational modifications.
27. Write an essay on Nitrogen fixation.
28. Give a detailed account of β -oxidation with ATP yield.

(2 × 12 = 24)

