

TB242217F

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024
2023 ADMISSIONS REGULAR
SEMESTER II - B.Sc. Nutrition and Dietetics COMPLEMENTARY COURSE 1
ND2C03B20 - General Biochemistry

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Write about natural inorganic fertilizers.
2. What is biofertilizer?
3. Classify fertilizers.
4. Define cloning vectors.
5. Identify the role of Endonuclease.
6. Define Reverse Transcriptase.
7. Describe Diabetes.
8. Recall Tuberculosis.
9. Explain the significance of DNA in diagnosis of any infectious disease.
10. Explain briefly the significance of using SDS in PAGE.
11. Explain western blotting technique.
12. Define DNA fingerprinting.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Compare various types of natural and artificial inorganic fertilizers.
14. Discuss on fertilizers? Describe the uses and advantages of fertilizers.
15. Explain the characteristic of a Vector.
16. Explain cosmids.
17. Explain the importance of early diagnosis of diseases.
18. Explain the role of DNA in diagnosis of genetic diseases.
19. Discuss the applications of PCR.
20. Describe the apparatus used for electrophoresis along with diagrams.
21. Explain in detail FISH.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. What is radioisotope decay? Explain the applications of radioisotopes.
23. Explain the applications of genetic engineering.
24. "DNA has a crucial role in diagnosis of diseases." Justify the statement with two examples each of infectious, non-communicable and genetic diseases.
25. Explain in detail different types of Electrophoresis.

