

TB222720W

Reg. No :

Name :

B. Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023
(2022 Admission Regular, 2021 Admission Supplementary / Improvement 2020 Admission Supplementary)
SEMESTER II - COMPLEMENTARY COURSE 1 (NUTRITION AND DIETETICS)
ND2C03B20 - GENERAL BIOCHEMISTRY

Time : 3 Hours

Maximum Marks : 80

Part A

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

(10x2=20)

1. Discuss on urea as a fertilizer.
2. Classify fertilizers.
3. Summarize various types of phosphatic fertilizers.
4. Discuss Exonuclease.
5. Define cloning vectors.
6. Differentiate between exonuclease and endonuclease action in genetic engineering.
7. Enumerate the genes specific to breast cancer.
8. Explain the significance of DNA in diagnosis of any infectious disease.
9. Describe AIDS.
10. Define VNTR.
11. List the essential tools required for PCR.
12. Explain the significance of dDNA.

Part B

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

(6x5=30)

13. Describe the benefits of biofertilizers.
14. Describe environmental impact of bioplastics.
15. Explain cosmids.
16. Explain lytic cycle with the help of a diagram.
17. Describe the role of DNA in the diagnosis of Human Papilloma Virus.
18. Explain the relationship between p53 gene and cancer.
19. Explain how paternity tests can be carried out with DNA profiling.
20. Explain the applications of Western blotting.
21. Discuss the applications of PCR.

Part C

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

(2x15=30)

22. Describe various types of bioplastics and their uses.
23. Discuss enzymes as a tool for recombinant DNA technology.
24. Explain in detail the method of Gene knockout.
25. Explain how isoelectric focusing is different from gel electrophoresis?