22100754

QP CODE: 22100754

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, APRIL 2022

Third Semester

COMPLEMENTARY COURSE - CH3CMT04 - CHEMISTRY - INORGANIC AND ORGANIC CHEMISTRY

Common to B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology, B.Sc Family & Community Science Model I, B.Sc Food Science & Quality Control Model III, B.Sc Food Technology & Quality Assurance, B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology & B.Sc Zoology Model II Medical Microbiology

2017 Admission Onwards

23D5A8CF

Time: 3 Hours Max. Marks : 60

core

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. How is n/p ratio is related to nuclear stability?
2. Name the artificial radioactive series.
3. Report any two differences between Exergonic and Endergonic reactions.
4. What are ferredoxins?
5. Write any two advantages of using biopesticides.
6. Explain the toxic effects of DDT.
7. Illustrate the aromatic nature of Pyrrole using Huckel's theory.
8. What is ampicillin? Give any one use of it.

9. What is chlorambucil? Give its use.

10. What is PFA?

11. Give the function of abrasive in toothpaste.

12. What is the main constituent responsible for the colour of lipstick ?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What are isotopes, isobars and isotones? Explain with suitable examples.

14. Discuss the problems associated with nuclear waste disposal.

15. What is the significance of sodium pottasium pump?

16. Compare selective and non-selective herbicides. Give example.

17. How is Bordeaux mixture prepared?

18. Propose a method each to synthesize Furan and Pyrrole.

19. Describe a method for the synthesis of Purines.

20. What is drug addiction? What are the causes of it?

21. Discuss the role of leavening agents and taste enhancers in food industry.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. What is decay constant? Derive an expression for decay constant. How is it related to half life period?

23. Describe the biochemical functions of haemoglobin and myoglobin.

24. Discuss the classification of fertilizers. Give example of each type.

25. Explain the structre and chemical properties of Indole.

(2×10=20)