



23104417

QP CODE: 23104417

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, JANUARY 2023**

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

7E4B57A7

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Define Curie.
2. Half life period of a radioactive element is 50 seconds. Calculate the time for its 12.5 % decay.
3. Cite an example for Exergonic reaction.
4. Define Bohr effect.
5. Write the chemical formula of triple super phosphate.
6. What is meant by LD50 value?
7. Report a method for the conversion of Furan into tetrahydrofuran (THF).
8. Name any two antimalarials.
9. What are tranquilizers? Give on example.





10. What do you understand by leavening agents? Give an example.
11. Name two natural colourants.
12. Differentiate between drugs and cosmetics.

(10×1=10)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What is mass defect? How is it related to binding energy and nuclear stability?
14. What are isotopes, isobars and isotones? Explain with suitable examples.
15. What is the significance of sodium potassium pump?
16. How are insecticides classified? Give example of each type.
17. Compare selective and non-selective herbicides. Give example.
18. Explain the aromaticity of Pyrrole and Pyridine using Huckel's rule.
19. Describe a method for the synthesis of Purines.
20. How are drugs classified? Give examples of each class.
21. List the important preservatives added to food and explain their role.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Describe the applications of radioactive isotopes in industry, agriculture and medicine.
23. Explain photosynthesis using Z scheme.
24. What are fungicides? How are they classified? Give the preparation of any two fungicides.
25. Explain the chemical properties of Pyridine.

(2×10=20)

