

TB243300B

Qe 20/11

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2023 ADMISSIONS REGULAR

SEMESTER III - COMPLEMENTARY COURSE 1

CH3B01B23 - Inorganic and Organic Chemistry

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 marks

(10x1=10)

1. Define a Curie.
2. Summarize how do elements with high n/p ratio attain stability.
3. Interpret low packing fraction value.
4. List the molecules absorbed and released during photosynthesis.
5. Differentiate between open formula and closed formula fertilizer mixtures.
6. Recall the element present in vitamin B12.
7. Explain Gattermann Koch reaction.
8. Illustrate a method of preparation of furan.
9. Recall the chemical name of paracetamol.
10. Describe the mode of action of dispirin.
11. List the qualities of an ideal artificial sweetener.
12. Summarize the functions of food additives.

Part B

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

(6x5=30)

13. Explain the power reactors in India.
14. Discuss the applications of radioactive isotopes in the field of medicine.
15. Explain the role of Manganese in plant growth.
16. Discuss on the advantages and disadvantages of mixed fertilizers.
17. Explain the main objectives for using fungicides.
18. Discuss any five reactions of pyridine.
19. Explain the physical and chemical properties of pyridine.
20. Explain the composition and side effects of talcum powder.
21. Discuss on the harmful effects of cosmetics.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. Discuss briefly the uses of radioisotopes in carbon dating and rock dating.
23. Discuss the classification of pesticides based on their chemical nature, mode of action, function and method of application.
24. Describe fungicides and their uses. Explain the different types of fungicides with examples.
25. Discuss drug addiction, its effects and preventive measures.