



**MAR IVANIOS COLLEGE (AUTONOMOUS)**  
**THIRUVANANTHAPURAM**

Reg. No. :.....

Name :.....

**Fourth Semester B.Sc. Degree Examination, June 2016**  
**First Degree Programme under CBCSS**  
**Complementary Course: Chemistry – IV (for Botany)**  
**AUCH431.2a: Organic Chemistry**

Time: 3 Hours

Max. Marks: 80

**SECTION – A**

*Answer ALL questions in a word or one or two sentences.*

1. Name two alkaloids from plants.
2. Name of two alkaloids used as anticancer drugs.
3. Write any one natural polymer.
4. Write the name of two synthetic rubbers.
5. Write one example of terpenoids.
6. What is the name of monomer of neoprene ?
7. Which vitamin is known as ascorbic acid ?
8. Name the deficiency disease of vitamin A.
9. Write the name of a chloro insecticide.
10. The drugs which relieve pain are known as \_\_\_\_\_.

**(10 × 1 = 10 Marks)**

**SECTION – B**

*Answer any EIGHT questions, not exceeding a paragraph.*

11. Write any two methods for isolation of alkaloids.
12. Draw the structure of any one alkaloid.
13. What are the monomers of Buna – S ?
14. State special isoprene rule.

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15. Draw the structure of citral.
16. Draw the structure of DDT and BHC.
17. What are antacids ?
18. How insecticides are classified ?
19. Distinguish between chromophores and auxochromes .
20. How carbamates are identified in TLC ?
21. How would you prepare methyl orange ?
22. Name two analgesic compounds.

**(8 × 2 = 16 Marks)**

### **SECTION – C**

*Short essay type : Answer any **SIX** questions.*

23. Write the importance of alkaloid as drugs.
24. What are neoprene and thiokol ?
25. Write the uses of Buna – N , Buna – S and Thiokol.
26. Describe the synthesis of DDT.
27. Write six examples of insecticides ?
28. Write four examples of dyes.
29. Write the uses of phenolphthalein and schiffs reagent.
30. How phenolphthalein is synthesized ?
31. Draw the structure of malachite green and phenolphthalein.

**(6 × 4 = 24 Marks)**

### **SECTION – D**

*Long essay type : Answer any **TWO** questions.*

32. Discuss the reactions of citral and geraniol.
33. Describe the classification of polymers.
34. Describe the determination and significance of iodine value and saponification value.
35. Write a note on classification of dyes ?

**(2 × 15 = 30 Marks)**

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