(Pages : 3) **G – 4045**

Reg. No. : .....

Name : .....

Fourth Semester B.Sc. Degree Examination, July 2019

(First Degree Programme Under CBCSS)
Complementary Course for Botany

CH 1431.3 Organic Chemistry

(2013–2016 Admissions)

Time : 3 Hours Max. Marks : 80

SECTION – A

Answer **all** questions. **Each** question carries 1 mark.

1. Give the structure of nicotine.
2. What is meant by isoprene rule?
3. ———— is known as sunshine vitamin.
4. The female sex hormone is called ————
5. Mention the applications of vinblastine
6. Who discovered DDT?
7. Give one method of preparation of methyl orange.
8. Give two examples of natural dye.
9. What is bathochromic shift?
10. What are drugs?

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer any **eight** questions. **Each** question carries **2** marks.

11. What are herbicides? Give one example.

12. Give the chemical names of vitamin A and vitamin C.

13. What is aspirin? Mention its applications.

14. What are antacids?

15. What is Schiff's reagent? Give its analytical importance.

16. Give one method of preparation of phenolphthalein.

17. What are alkaloids? Give the structure of conine.

18. What are the important applications of geraniol?

19. What are bile acids? Give one example.

20. Give the basic principle of identification of pesticides by TLC.

21. Describe the isolation of morphine and give its structure.

22. What is Thiokol rubber? How it is prepared?

(8 × 2 = 16 Marks)

SECTION – C

Answer any **six** questions. **Each** question carries **4** marks.

23. What are oils and fats? Give the classification of oils with suitable examples.

24. Differentiate saponification value and iodine value.

25. Discuss the general properties and physiological action of alkaloids.

26. Give the classification of pesticides with suitable examples.

27. Give the synthesis and application of Buna-S.

28. What are chromophores and auxochromes? Give two examples each.

29. Give one method of synthesis and uses of chloramphenicol and sulpha guanidine.

30. Explain how hormones are classified with examples?

31. Give one method of preparation of malathion and carbamates.

(6 × 4 = 24 Marks)

SECTION – D

Answer any **two** questions. **Each** question carries **15** marks.

32. (a) Discuss the classification of alkaloids with suitable examples. (7 marks)

(b) Write short notes on classification of polymers based on origin and synthesis (8 marks).

33. Write an essay on classification of vitamins and vitamin deficiency diseases.

34. Write an essay on dyes and its classification.

35. (a) Write short note on antipyretics and analgesics. (8 marks)

(b) Give the synthesis and toxic properties of DDT and BHC. (7 marks)

(2 × 15 = 30 Marks)