

**2021/TDC(CBCS)/EVEN/SEM/
CHMSEC-601T/057**

**TDC (CBCS) Even Semester Exam.,
September—2021**

CHEMISTRY

(6th Semester)

Course No. : CHMSEC-601T

(Pesticide Chemistry)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *fifteen* questions : 1×15=15

1. What is IPM?
2. What is a pest?
3. Define LD₅₀.
4. What are algicides?

5. Give any two examples of organic pesticides.
6. Name any two bases upon which pesticides can be classified.
7. Give an example of organochlorine pesticides.
8. Write two advantages of natural pesticides.
9. Write two toxic effects of organophosphate pesticides.
10. What are carbamate pesticides?
11. Define organophosphate pesticides.
12. How does carbamate pesticide affect the nervous system?
13. What do you mean by formulation of pesticides?

14. What are biopesticides?
15. Give two examples of biopesticides.
16. What do you mean by entomopathogenic fungi?
17. What are aerosols?
18. What is the purpose of formulation of pesticides?
19. What is an insecticide?
20. Give an example of organophosphate insecticide.
21. What are nematicides?
22. Give two examples of fungicides.

23. Write two benefits of using fungicides.
24. Write the name and structure of any nematicide.
25. What do you mean by representative pesticides?
26. Draw the structure of chloranil.
27. How can you avoid harmful effects of pesticides?
28. What are organochlorine pesticides?
29. What is delayed effect?
30. Write two side effects of gammexene.

(5)

SECTION—B

Answer any *five* questions :

2×5=10

31. Write down any four harmful effects of pesticides.
32. What are pesticides? How are they classified on the basis of source?
33. What are the signs and symptoms of carbamate pesticide poisoning?
34. What are the medical treatments for organo-phosphate pesticide poisoning?
35. Write two characteristics of biopesticides.
36. What is micro-encapsulated formulation of pesticides?
37. How do insecticides kill insects?

38. Write down the mode of action of nematicides with a suitable example.
39. What are anilides? Discuss any one of them as a pesticide.
40. Write any two symptoms of pesticide poisoning and two symptoms of irritation effects from pesticides.

SECTION—C

Answer any *five* questions :

5×5=25

41. Discuss briefly the nature of damage caused by public health pests, domestic pests and agricultural pests.
42. Write short notes on the following : $2\frac{1}{2}\times 2=5$
- (a) Pest management
- (b) Natural pesticides
43. Discuss briefly the benefits and adverse effects of pesticides.
44. What are the causes and effects of pesticide residues in soil and water?

45. Write in detail the classification of pesticides on the basis of their formulations.
46. What is controlled release formulation of pesticides? What are the importance and advantages of controlled release formulations? 2+3=5
47. Discuss the impact of insecticides on human health and on environment with suitable examples.
48. What are strobilurins? Write briefly the mechanism of action of strobilurins as fungicides with examples. 3+2=5
49. Write down any method of preparation of DDT. Write two side effects and uses of DDT. 3+2=5
50. Write down any method of preparation of carbaryl. Write two uses and toxic effects of carbaryl. 3+2=5
