

**2023/TDC(CBCS)/EVEN/SEM/  
CHMSEC-601T/342**

**TDC (CBCS) Even Semester Exam., 2023**

**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 of the following :

1×15=15

1. Name the first organic pesticide used commercially.
2. Define the term 'pests'.
3. Give one example of agricultural pest.
4. What is meant by IPM?

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*( Turn Over )*



5. Give two examples of inorganic pesticides.
6. Mention two benefits of natural pesticides.
7. Write two toxic effects of organophosphate pesticides.
8. Mention any one symptom of organophosphate pesticide poisoning.
9. What is meant by dry formulations of pesticides?
10. State True or False :  
*Bacillus thuringiensis* is a biopesticide.
11. What are entomopathogenic fungi?
12. What are colloidal solutions?
13. What are nematicides?
14. Name one chlorinated hydrocarbon used as insecticide.
15. Dithianon comes under which category of pesticide?
16. Draw the structure of chloranil.

17. Give one example of organophosphate pesticide.
18. What is delayed effect?
19. What are carbamates?
20. Mention two uses of Gammexane.

SECTION—B

Answer any *five* questions from the following :

2×5=10

21. Define the term 'pesticide'. How are they classified according to chemical nature?
22. What are domestic pests? Mention two harmful effects of domestic pest.
23. Write down any four benefits of using pesticides.
24. What are the sign and symptoms of organochlorine pesticide poisoning?
25. What is meant by pesticide formulations? What are its conventional types?

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26. Write two characteristics of entomopathogenic fungi.
27. Explain the mode of action of DDT. Also give its structure.
28. What are fungicides? Draw the structure of dithianon pesticide.
29. What are organophosphates? Mention its two uses.
30. Write a short note on anilides pesticide.

SECTION—C

Answer any *five* questions from the following :

5×5=25

31. Discuss the classification of pesticides on the basis of target species.
32. What are public health pests? Give an account on damage caused by domestic pests and agricultural pests. 1+4=5
33. Discuss the symptoms and medical treatment of organochlorine pesticide poisoning. Mention any two toxic effects of pesticides on human body. 3+2=5

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( Continued )



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34. Give a detailed account on causes and effects of pesticide residues in soil and water.
35. What is meant by controlled release formulation of pesticides? Discuss the importance and advantages of controlled release formulations.  $2+3=5$
36. What are biopesticides? Give one example of biopesticide. Discuss the mechanism of action of biopesticides.  $1+1+3=5$
37. What are insecticides? Discuss the mode of action of organophosphate pesticides.  $2+3=5$
38. Draw the structure of Gammexane. Discuss its mode of action and harmful effects.  $2+3=5$
39. Discuss the synthesis of carbaryl. Mention any two uses and toxic effects of carbaryl.  $3+2=5$
40. Give one method of preparation of alachlor. Write down the uses and side effects of alachlor.  $3+2=5$

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