

**2022/TDC(CBCS)/EVEN/SEM/  
CHMSEC-601T/347**

**TDC (CBCS) Even Semester Exam., 2022**

**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 from the following :**

1×15= 15

1. What is meant by LD<sub>50</sub>?
2. What are rodenticides?
3. Give one example of natural pesticide.
4. Bedbug is an example of agricultural pest.  
Write true or false.

( 2 )

5. Write two adverse effects of synthetic pesticide.
6. What are organophosphate pesticides?
7. Write two toxic effects of organochlorine pesticides.
8. Write any one symptom of carbamate pesticide poisoning.
9. What is meant by pesticide formulation?
10. What are adjuvants?
11. Give one example of diluent used in pesticide formulation.
12. What is suspension concentrate (SC)?
13. Draw the structure of DDT.
14. Give two examples of insecticides.
15. Carbendazim is a nematicide. Write true or false.
16. What are fungicides?
17. What is the full form of BHC?

( 3 )

18. Chloranil comes under which category of pesticide?
19. Give an example of anilide pesticide.
20. Write one use of chloranil.

## SECTION—B

Answer any *five* questions from the following :

2×5=10

21. What are pesticides? Write the classification on the basis of target species.
22. What is meant by agricultural pest? Write two harmful effects of bollworms.
23. How does organochlorine affect the central nervous system? Write one toxic effect of gammexene.
24. What are the signs and symptoms of organophosphate pesticide poisoning?
25. Define the following terms associated with pesticide formulations :
  - (a) Colloidal solution
  - (b) Controlled-release formulation

( 4 )

26. What are biopesticides? Write two characteristics of biopesticide.
27. What are insecticides? Write the mode of action of malathion insecticide.
28. Write the mode of action of fungicides.
29. Write two uses and side effects of DDT.
30. What are carbamates? Write one use of carbofuran.

## SECTION—C

Answer any *five* questions from the following :

5×5=25

31. Write short notes on the following :  $2\frac{1}{2}\times 2=5$   
 (a) Synthetic pesticides  
 (b) Natural pesticides
32. What are domestic pests? Discuss the nature of damage caused and management of agricultural pests.  $1+4=5$
33. What are the symptoms and medical treatment for carbamate poisoning? Mention three toxic effects of pesticides on human body.  $3+2=5$

( 5 )

34. Discuss the causes and environmental effects of pesticide residues. 5
35. Briefly discuss the different types of pesticide formulations. 5
36. What are entomopathogenic fungi? Write the characteristics and mechanism of action of entomopathogenic fungi.  $1+4=5$
37. Draw the structure of any fungicide and discuss its uses and mode of action. 5
38. What are nematicides? Discuss briefly the mode of action of nematicides.  $2+3=5$
39. How is DDT synthesized in the laboratory? Write two uses and harmful effects of DDT.  $3+2=5$
40. What are quinones? Write about the synthesis and uses of chloranil.  $1+4=5$

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