

22-3-17



**DOON UNIVERSITY, DEHRADUN**  
**Mid Semester Examination, 22<sup>nd</sup> March, 2017**  
**School of Physical Sciences**  
**Integrated M.Sc. Chemistry**  
**Course: CYS-251: Pesticide Chemistry**

*Time Allowed: 2 Hours.*

*Maximum Marks: 30*

Note: Attempt All Questions

**SECTION: A**

**Attempt All Questions.**

*(Marks: 6Q × 1 = 6)*

1. Substances which can remain in soil for many years are called as
  - A. microorganisms
  - B. insecticides
  - C. dichloro-triphenyl dichloroethane
  - D. dichloro-diphenyl trichloroethane
2. A herbicide applied to the soil before planting a crop is called a:
  - A. postemergence herbicide
  - B. postplant herbicide
  - C. preemergence herbicide
  - D. preplant herbicide
3. What are the units of LD<sub>50</sub>?
  - A. milligrams/ kilogram of animal body weight
  - B. milligrams/gram of animal body weight
  - C. kilogram/gram of animal body weight
  - D. gram/gram of animal body weight
4. Pesticides designed to kill birds are called:
  - A. miticides
  - B. herbicides
  - C. birdicides
  - D. aviacides
5. The degree to which a chemical is poisonous to the organism is its:
  - A. toxicity
  - B. hazard rating
  - C. kill value
  - D. lethal dose

6. Which is the major component of Bordeaux mixture
- A. Copper sulphate
  - B. Sodium chloride
  - C. Calcium chloride
  - D. Magnesium chloride

**SECTION: B**

**Attempt All Questions.**

*(Marks: 6Q × 2 = 12)*

- 7. Define pesticides and explain their significance in agriculture industry.
- 8. Classify the pesticides on the basis of target pest.
- 9. What are natural pesticides. Give example of any two natural pesticides.
- 10. What are the side effects associated with the use of pesticides?
- 11. What are the uses of herbicides, rodenticides, fungicides and insecticides?
- 12. Explain mode of action of any two pesticides.

**SECTION: C**

**Attempt All Questions.**

*(Marks: 3 Q × 4 = 12)*

- 13. Write a note on synthesis application and adverse effect of DDT. To which class of chemical-pesticides, DDT belongs.
- 14. What are anilides, explain synthesis and application of alachlor and butachlor.
- 15. Explain the pathways of pesticide movement in the environment and factors deciding pesticides fate.