

9/5/19
M

[This question paper contains 14 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : 2389 IC

Unique Paper Code : 32173911

Name of the Course : B.Sc.(Prog.)/B.Sc. (Hons.)
Chemistry : SEC

Name of the Paper : Pesticide Chemistry

Semester : IV

Time : 2 Hours Maximum Marks : 38

Instructions for Candidates :

- Write your Roll No. on the top immediately on receipt of this question paper.
- Answer **three** questions in all.
- Question **NO.1** is compulsory and carries 14 marks.
- All** other questions are of **12** marks.

- (a) Write down the chemical equation for the reduction of parathion.

2

P.T.O.

- (b) Name any **two** pesticides that are now banned in India for their manufacture as well as use. 2
- (c) What do understand by the term 'biological magnification' ? 2
- (d) Give examples of any **two** nerve gas agents (war agents). 2
- (e) What are insecticides ? Give **one** example. 2
- (f) What are herbicides ? Give **one** example. 2
- (g) Write the structural formula of Acetylcholine and its role in nervous system. 2
2. (a) Give the preparation of carbofuran using phenol. 4
- (b) How Pesticides causes adverse effect towards environment ? 4

- (c) Give the structure of the following and identify them as insecticide/herbicide/fungicide : 4
- (i) Malathion
- (ii) Chloranil
3. (a) How the variation of different group attached to DDT affects its activity ? Write down a short note on mode of action of DDT. 6
- (b) "DDT has severe environmental effects". Explain. 3
- (c) How natural pesticides are useful for the environment ? 3
4. (a) What is the effect of organophosphorus pesticides on the human brain ? 4

(b) What is a systemic fungicide ? Explain with an example.

4

(c) What are Anilides ? How Alachlor is synthesized ?

4