

Sr. No. of Question Paper: 1564-E
Unique paper code: 217475
Name of the Course: B.Sc (Prog) Applied Life Sciences
Name of Paper: Paper 16 - Fungicides
Semester: IV

Time: 3 hours

MM: 75

Attempt any five questions. All questions carry equal marks.

1. Write structural formula of the following:

- A. Thiram
- B. Two Organo mercury compounds used as fungicides.
- C. Ziram and Kitazine.
- D. Propiconazole.
- E. A polymer of acetaldehyde used as Molluscicide.

2. Discuss the following;

- A. Name two Contact fungicides.
- B. Name two Systemic fungicide.
- C. Fungistatic state.
- D. Carbamate fungicides.
- E. Fumigants as molluscicides..

3. Answer the following;

- A. Discuss the action of Mercury fungicides.
- B. What happens when copper sulphate is mixed with lime water? Elaborate with the help of chemical equations step by step.
- C. What happens when the free copper ions are present in B D mixture and how a farmer would detect the same.
- D. Discuss the preparation of Thiram with the help of chemical equations.
- E. Why monoalkyldithiocarbamates are used as fungicide, explain with chemical equations?

4. Answer the following;

A. Discuss the preparation of a fungicide with the help of chemical equations , using following chemicals;

(i) NH_2CN (ii) ClCO_2CH_3 (iii) $\text{C}_4\text{H}_9\text{NCO}$

B. Discuss the role of MBC, a metabolite of benomyl as fungicide.

C. Discuss the preparation of a fungicide with the help of chemical equations, using following chemicals

(i) $\text{C}_6\text{H}_4\text{-(NH}_2)_2$, (ii) $\text{H}_2\text{NCSNHCOOCH}_3$

D. Discuss protective and curative fungicides with examples.

E. Discuss the mode of action of Bordeaux mixture.

5. Answer the following;

A. Discuss the action of enzyme sensitive fungicides.

B. Discuss the action of Kitazins against fungus with time period.

C. What is Ziram? How is it prepared, explain with chemical equations?

D. What are phenyl amides, give an example? Discuss its role as fungicide.

E. Discuss the non target effects of copper fungicides.

6. Answer the following;

A. Write the chemical structures of warfarin and Antu.

B. Discuss the action of zinc phosphide as rodenticide.

C. Why habit and habitate of the rodents should be studied for their control?

D. Write a shortnote on Nematicides.

E. Define molluscicides write the chemical equations for the preparation of Metaldehyde.

7. Discuss the following,

A. Classification of fungicides.

B. Action of Warferin as rodenticide.

C. Discuss the Role of 1, 3- dichloropropene, 1, 2- dibromo-3-chloropropane and Dazomet as Nematicides.

D. Discuss the hydrolysis of Benomyl.

E. Are fungus always harmful in daily life?