

Unique paper code : 42177935  
Name of the paper : DSE- Fungicides  
Name of the Course : B.Sc (prog) Applied Life Sciences,  
Agrochemicals and pest management  
Semester : V  
Duration : 3 Hours  
Maximum Marks : 75

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Attempt any **Four** questions in all.

Question no.1 is **compulsory**.

Attempt **Three** questions from the rest.

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Q.1. (a) Give the complete classification of mercury fungicides with suitable examples. Take any two examples of organomercury fungicides and comment on their mode of action and toxicity.

(b) Give in brief what are rodenticides. Give their classification. Comment on the action of Warfarin as rodenticide.

12, 9

Q.2. (a) Giving examples, write a short note on molluscicides. Give the synthesis of metaldehyde and its probable mode of action..

(b) Giving examples, write a short note on Nematicides Give the synthesis of metam-sodium , What is its mode of action?

9, 9

Q.3 (a) Give the classification of fungicides based on their Chemical Class with examples.

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(b) Define the following terms :

- I. Fungistat
- II. Antisporulant
- III. Protective fungicides
- IV. Curative fungicides
- V. Contact fungicides
- VI. Systemic fungicides.

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Q.4. (a) Dichlone belongs to which chemical class of fungicide? Write its structure and comment on its mode of action.

(b) Benomyl absorbed by plants is rapidly metabolized in the tissue fluids into MBC. What is the structure of MBC. Also comment on its fungicidal activity.

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Q.5. Attempt any *Three* :

- (a) Write the various key points of the biological mode of action of fungicides which exert the potential effects on fungi to control fungal diseases.
- (b) What is the structural unit of Dithiocarbamate group? Give the preparation of Nabam and write the chemical equation involved.
- (c) Write a short note on Dinitrophenols as fungicides.
- (d) Write a short note on copper fungicides.

6, 6, 6

Q.6. (a) What are fumigants? Explain giving at least four examples of your choice? Give the structure of these fumigants.

(b) List the various chemical and physical characteristics of fumigants. Explain any four of these characteristics in brief.

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