

PATH-232

COLLECTED FROM PREVIOUS YEAR QUESTION PAPER BY, MISS. RAKSHA ANIL HINGNAKAR.

Section A

- 1) Define IPM. Describe basic principles and advantages of IPM.
- 2) Define plant diseases. Write in detail about economic importance of plant diseases.
- 3) What is Pest Risk Analysis? Describe different stages of pest risk analysis.
- 4) What is diagnosis? Describe different steps involved in plant disease diagnosis.
- 5) Define plant disease resistance. Comment on different types of disease resistance.
- 6) What is integrated plant disease management? Describe IPDM strategy adopted for rice crop.
- 7) Define plant quarantine. Describe different types of plant quarantine with suitable examples.
- 8) What is survey and surveillance? Mention the objectives of surveillance and describe different types of survey.
- 9) Comment on safety issues or guidelines in Pesticide uses.
- 10) Write short notes on the following:
 - a) Biological control of plant disease.
 - b) Tools of IPM.
 - c) Conventional pesticides for plant disease management.

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- d) Plant disease forecasting.
- e) Measurement of losses due to plant disease.
- f) Survey and surveillance.
- 11) What do you mean by integrated pest management? Describe the basic principles and advantages of IPM.
- 12) Explain the economic importance of plant disease with suitable example.
- 13) What do you mean by PRA? Describe in brief about the stages of Pest Risk Analysis.
- 14) Define Diagnosis and Detection. Enlist the different methods of diagnosis of plant diseases. Write in short about Koch's postulates.
- 15) Explain in short cultural methods of plant diseases management with suitable example.
- 16) Describe in brief Biological methods of plant diseases management with suitable example.
- 17) What are the requirements for implementation of IPM? Discuss the IPDM model of sugarcane crop with their diseases.
- 18) Enlist and explain the safety issues of the use of pesticides.
- 19) Explain in short.
 - a) Plant quarantine.
 - b) Conventional pesticides for plant management.
 - c) Tools of IPM.
- 20) Enlist general principals of plant disease management and describe eradication and exclusion method.

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21) Define Fungicide. Enlist various methods of application of fungicides and describe foliar application method.

22) What do you mean by epidemic diseases?

Section B

Que.1) Define the following terms:

- | | |
|---------------------|----------------------|
| 1) Infection | 7) Epidemic disease. |
| 2) Plant disease. | 8) Inoculum |
| 3) Symptoms. | 9) Resistance |
| 4) Pathogenesis. | 10) Fungistat |
| 5) Biotroph | 11) Antibiotic |
| 6) Hypersensitivity | |

Que. 2) State true or false:

- 1) In India, Plant Quarantine rules and regulations were issued under destructive insect act in 1914.
- 2) Hot water treatment is used for management of powdery mildew disease.
- 3) Hand lens is used for the diagnosis of plant diseases.
- 4) The term integrated pest management given by Council of environmental quality.
- 5) Oospore is not a resting spore of downy mildew fungus *Plasmopara parasitica*.
- 6) An organism surviving on dead organic matter is termed as biotroph.

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Que.3) Fill in the blanks:

- 1) NPP stands for_____.
- 2) The plant disease responsible for Irish famine was_____
- 3) The scientific or experimental evidence of disease is called_____.
- 4) The commercial fungal bio control agent used in plant disease management is_____.
- 5) Most commercially exploited fungal bio control agent is _____.
- 6) Bacteria are _____invaders. (Passive/Active)

Que. 4) Match the following pairs:

- | | |
|-----------------------------------|--|
| 1) ISPM | a) Bacterial bio control agent |
| 2) <i>Pseudomonas fluorescens</i> | b) Death of tissue |
| 3) Necrosis | c) Rachel Carson |
| 4) Silent spring | d) International standards of Phytosanitary measure. |

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