

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END EXAMINATION

B.Sc. (Hons.) Agriculture

Semester	: III (New)	Term	: I	Academic Year	: 2018-19
Course No.	: PATH 232	Title	: Principles of Integrated Disease Management		
Credits	: 2(1+1)				
Day & Date	: Friday, 23.11.2018	Time	: 9.08 to 11.00	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION "A".
  2. All questions from SECTION "B" are compulsory.
  3. All questions carry equal marks.
  4. Draw neat diagrams wherever necessary.

SECTION "A"

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

SECTION "B"

- Q.11 Fill in the blanks.
- 1) NPPO 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 biocontrol agent used in plant disease management is \_\_\_\_\_.
- Q.12 Match the following pairs.
- |                                   |  |
|-----------------------------------|--|
| 'A'                               | 'B'  |
| 1) ISPM                           | a) Bacterial biocontrol agent                        |
| 2) <i>Pseudomonas fluorescens</i> | b) Death of tissue                                   |
| 3) Necrosis                       | c) Rachel Carson                                     |
| 4) Silent Spring                  | d) International standards of Phytosanitary measures |

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