MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION
B.Sc. (Hons.) Agriculture

Semester	: III (New)	**Term**	: I	**Academic Year**	: 2019-20
Course No.	: PATH 232	**Title**	: **Principles of Integrated Disease Management**		
Credits	: 2(1+1)				
Day & Date	: Friday, 15.11.2019	**Time**	: 09.00 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 What do you mean by Integrated Pest Management? Describe the basic principles and advantages of IPM.

Q.2 Explain the economic importance of plant disease with suitable example.

Q.3 What do you mean by PRA? Describe in brief about the stages of Pest Risc Analysis.

Q.4 Define Diagnosis and Detection. Enlist the different methods of diagnosis of plant diseases. Write in short about Koch's postulates.

Q.5 Write short note (Any Two).

a) Plant disease forecasting
b) Measurement of losses due to plant diseases.
c) Survey and surveillance

Q.6 Explain in short cultural methods of plant diseases management with suitable examples.

Q.7 Describe in brief Biological methods of plant disease management.

Q.8 What are the requirements for implementation of IPM? Discuss the IPDM model for Sugarcane crop with their diseases?

Q.9 Explain in short (Any Two).

a) Plant quarantine
b) Conventional pesticides for plant disease management
c) Tools of IPM

Q.10 Enlist and explain the safety issues of the use of pesticides.

SECTION "B"

Q.11 Define the following terms.

1) Infection
2) Plant Disease
3) Symptoms
4) Pathogenesis

Q.12 State True or False.

1) In India, plant quarantine rules and regulation were issued under Destructive Insect and Pest Act in 1914.
2) Hot water treatment is used for management of powdery mildew disease.
3) Hand lense is used for the diagnosis of plant disease.
4) The term Integrated Pest Management given by Council on Environmental Quality.

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