

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Winter 2018 Examination

Semester: 5

Date :29/10/2018

Subject Code: 20107301

Time: 2:00pm to 4:30pm

Subject Name: Disease of Horticultural crops and their management

Total Marks: 60

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Do as Directed.**A. Fill in the blanks. (Each of 1.00 marks)****(10)**

1. A disease where there is a visible mould growth over the plant surface and particularly evident on leaves is called _____.
2. Rapid and extensive necrosis of leaves, flowers, twigs or the whole plant giving a burnt appearance is called _____.
3. Inhibition or destruction of one microorganism by metabolic products of another microorganism is called _____.
4. Quick decline of citrus transmitted by _____. (Write down scientific name of vector).
5. _____ varieties of mango highly affected by blossom blight.
6. Potato leaf roll virus transmitted by _____.
7. _____ colour conidia resembling ash on a cigar end of banana.
8. In _____ disease exposed tubers of potato develop chlorophyll and become light green.
9. In the field "v" shaped chlorotic to yellow lesions develop from leaf margin in _____ disease of cabbage.
10. _____ disease of cucurbit has two casual organisms.

B. Multiple choice type questions. (Each of 1.00 mark)**(10)**

1. Papaya ring spot virus transmitted by _____.

a) aphid	c) white fly
b) jassid	d) mite
2. _____ a single tubular thread-like filament of a fungal mycelium.

a) Mycelium	c) Spore
b) Hypha	d) Biotroph
3. Where the host is infected with a pathogen but does not show any symptoms is called _____.

a) Inoculate	c) Latent Infection
b) Syndrome	d) Disinfectant
4. _____ is a submicroscopic, non-cellular structure consisting of a core of infectious nucleic acid (either RNA or DNA) within a protein coat.

a) Virus	c) Nematode
b) Fungus	d) Bacteria
5. Occur at very irregular intervals and locations and in relatively fewer instances is called _____.

a) Epiphytotic disease	c) Endemic disease
b) Sporadic disease	d) epidemic disease
6. Application of lime in soil reduces the _____ disease by increasing the pH of soil.

a) wart of potato	c) Club root of cabbage
b) common scab of potato	d) black leg of cabbage
7. Application of sulphur in soil reduces the _____ disease by decreasing the pH of soil.

a) Club root of cabbage	c) wart of potato
b) black leg of cabbage	d) common scab of potato

8. Local and systemic infection found in _____ disease.
- | | |
|--------------------------|----------------------------|
| a) Anthracnose of chilli | c) white rust of crucifers |
| b) club root of cabbage | d) late blight of potato |
- 9 Papaya leaf curl virus transmitted by _____.
- | | |
|--------------|-----------|
| a) aphid | c) jassid |
| b) white fly | d) mite |
10. Potato leaf roll virus transmitted by _____.
- | | |
|-----------|--------------|
| a) aphid | c) white fly |
| b) jassid | d) mite |

Q.2 Do as Directed.

A. Define the following. (Any five)

(05)

1. Disease Severity
2. Disease Incidence
3. Primary infection
4. Resistant
5. Disinfestant
6. Quarantine
7. Hyperplasia

B. Answer the following. (Any Five)

(05)

1. Explain specific symptoms of cigar end rot of banana.
2. Write down symptoms and Management of yellow vein mosaic of okra.
3. Write down casual organisms of watery rot of papaya.
4. Explain symptoms of purple blotch of onion.
5. Write down management of panama wilt of banana.
6. Favourable condition for algal leaf spot of tea.
7. Explain specific symptoms of foot rot of papaya.

Q.3 Write short notes. (Any five)

(15)

Explain following disease (C.O, Symptoms and Management).

1. Damping of brinjal
2. Anthracnose of chilli
3. Black leg of cabbage
4. Potato scab
5. Potato wart
6. Club root of cabbage

Q.4 Attempt any Three/Long Questions/Example

(15)

Write down C.O, Symptoms, F.C, management and Prediction model of late blight of potato.

Write down C.O, Symptoms, Life cycle, F.C and Management of bean rust.

Write down C.O, Symptoms, Vector name F.C, and Management of Citrus canker.

Write down C.O, Symptoms, Life cycle, F.C and Management of white rust of crucifers.