

**PARUL UNIVERSITY**  
**COLLEGE OF AGRICULTURE**  
**B.Sc. (Hons.) Agriculture 2018 - 19 Examination**

**Semester: 5**  
**Subject Code: 20107301**  
**Subject Name: Disease of Horticultural crops and their management**

**Date: 26/04/2019**  
**Time: 2:00pm to 4:30pm**  
**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. \_\_\_\_\_ disease of cucurbit has two casual organisms.
2. In the field “v” shaped chlorotic to yellow lesions develop from leaf margin in \_\_\_\_\_ disease of cabbage.
3. In \_\_\_\_\_ disease exposed tubers of potato develop chlorophyll and become light green.
4. \_\_\_\_\_ colour conidia resembling ash on a cigar end of banana.
5. Potato leaf roll virus transmitted by \_\_\_\_\_.
6. \_\_\_\_\_ varieties of mango highly affected by blossom blight.
7. Quick decline of citrus transmitted by \_\_\_\_\_. ( Write down scientific name of vector).
8. A disease where there is a visible mould growth over the plant surface and particularly evident on leaves is called \_\_\_\_\_.
9. Rapid and extensive necrosis of leaves, flowers, twigs or the whole plant giving a burnt appearance is called \_\_\_\_\_.
10. Inhibition or destruction of one microorganism by metabolic products of another microorganism is called \_\_\_\_\_.

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

1. Potato leaf roll virus transmitted by \_\_\_\_\_.  
 a) aphid  
 b) jassid  
 c) white fly  
 d) mite
2. \_\_\_\_\_ a single tubular thread-like filament of a fungal mycelium. The hypha is the basic structural unit of a fungus.  
 a) Mycelium  
 b) Hypha  
 c) Spore  
 d) Biotroph
3. Where the host is infected with a pathogen but does not show any symptoms is called \_\_\_\_\_.  
 a) Inoculate  
 b) Syndrome  
 c) Latent Infection  
 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  
 b) Fungus  
 c) Nematode  
 d) Bacteria
5. Occur at very irregular intervals and locations and in relatively fewer instances is called \_\_\_\_\_.  
 a) Epiphytotic disease  
 b) Sporadic disease  
 c) Endemic disease  
 d) epidemic disease
6. Application of lime in soil reduces the \_\_\_\_\_ disease by increasing the pH of soil.  
 a) wart of potato  
 b) common scab of potato  
 c) Club root of cabbage  
 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
- b) black leg of cabbage
- c) wart of potato
- d) common scab of potato

8. Local and systemic infection found in \_\_\_\_\_ disease.

- a) Anthracnose of chilli
- b) club root of cabbage
- c) white rust of crucifers
- d) late blight of potato

9 Papaya leaf curl virus transmitted by \_\_\_\_\_.

- a) aphid
- b) white fly
- c) jassid
- d) mite

10. Papaya ring spot virus transmitted by \_\_\_\_\_.

- a) aphid
- b) jassid
- c) white fly
- 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.