

**DR.PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA**  
**SEMESTER END EXAMINATION**

**B.Sc. Hons. ( Horticulture)**

|                       |                               |                      |                                          |
|-----------------------|-------------------------------|----------------------|------------------------------------------|
| <b>Semester</b>       | <b>: III (New)</b>            | <b>Academic Year</b> | <b>: 2021-22</b>                         |
| <b>Course No.</b>     | <b>: H/PATH - 231</b>         | <b>Title</b>         | <b>: Fundamentals of Plant Pathology</b> |
| <b>Credit</b>         | <b>: 2(1+1)</b>               | <b>Time</b>          | <b>: 12.00 to 1.00</b>                   |
| <b>Day &amp; Date</b> | <b>: Thursday, 28/04/2022</b> | <b>Total Marks</b>   | <b>: 40</b>                              |

- Note :**
1. Solve **ANY Four** questions from **SECTION A**
  2. Solve **Any Six** questions from **SECTION B**
  - 3 All questions from **SECTION C** are compulsory

**SECTION - A**

**(Write the answers in 4-5 sentences only. Each question carries 4 marks)**

- Q.1 Describe general characters of fungi.
- Q.2 Enlist various formulations of fungicides and describe any two in detail with suitable example
- Q.3 Quote important contribution of the following Scientists (Any Four).
- |                  |                          |                  |
|------------------|--------------------------|------------------|
| a) Anton de Bary | b) Anton van Leeuwenhoek | c) Robert Hook   |
| d) K. C. Mehta   | e) W. M. Stanley         | f) B. B. Mundkur |
- Q.4 Write in short about dissemination of plant pathogens
- Q.5 Describe in short various principles of plant disease management.

**SECTION –B**

**(Write the answers in one sentence only. Each question carries 2 marks)**

- Q.6 Do as directed
- a) Define Penetration and Dissemination
  - b) Name the scientists who discovered Bordeaux mixture and compound microscope
  - c) \_\_\_\_\_ is a complete root parasite and \_\_\_\_\_ is a complete stem parasite (Fill in the blank)
  - d) What will you call to the organisms having nucleic acid surrounded by protein coat and naked RNA
  - e) Give two examples of systemic fungicides
  - f) Name two modifications of mycelium
  - g) Quote two asexual spore fruits of fungi

### SECTION –C

(Choose the correct option. Each question carry 1 mark)

- Q. 7
- 1) For sterilization of glasswares \_\_\_\_\_ is used  
A) Autoclave                      B) BOD Incubator  
C) Hot air oven                  D) Laminar air flow
  - 2) Mycelium having cross wall is called as  
A) Septate                          B) Coenocytic  
C) Aseptate                        D) Non septate
  - 3) Mycelium growing within cells of plant tissue is known as  
A) Intercellular                  B) Intracellular  
C) Ectophytic                      D) None of these
  - 4) Which one of the following is the sexual spore of fungi  
A) Ascospore                      B) Zygosporangium  
C) Oospore                        D) All of these
  - 5) Epidemic of plant diseases are more severe and rapid in \_\_\_\_\_ borne diseases  
A) Air                                B) Soil  
C) Seed                              D) All of these
  - 6) \_\_\_\_\_ is a biological disease control agent for soil borne plant pathogens  
A) *Fusarium*                      B) *Rhizoctonia*  
C) *Trichoderma*                  D) *Phytophthora*
  - 7) Parasites which can live as saprophytes are called as  
A) Facultative parasite          B) Saprophytes  
C) Obligate parasite              D) Facultative saprophyte
  - 8) Pathogen causing black rot of cabbage make its entry into the host through  
A) Stomata                        B) Hydathodes  
C) Lenticles                        D) Insect vector
  - 9) Anamochory is the dissemination of plant pathogens by  
A) Wind                            B) Animals  
C) Water                            D) Autonomous
  - 10) Bacterium having tuft of flagella at one or both end of cell is called  
A) Monotrichous                  B) Amphitrichous  
C) Lophotrichous                  D) Peritrichous
  - 11) The fourth important component apart from host, pathogen and environment in governing epidemic is  
A) Location                        B) Time  
C) Both                              D) None of these
  - 12) Plant diseases are classified as parasitic and non parasitic based on  
A) Severity                        B) Symptoms  
C) Host                              D) Causes

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