

## SEMESTER END THEORY EXAMINATION

## B.Sc.(Hons.) Agriculture

Semester : V	Term : First	Academic Year : 2024-25
Course No. : PATH 354	Title : Diseases of Field and Horticultural Crops and their Management-I	
Credits : 3 (2+1)		
Day & Date : Monday, 21.10.2024	Time : 14:00 to 17:00hrs.	Total Marks : 80

- 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 diagram wherever necessary.

## SECTION 'A'

- Q.1 Describe symptoms and management strategies of the following diseases:  
a) Blast of rice b) Rust of soybean
- Q.2 Write primary and secondary source of infection of the following diseases:  
a) Coffee rust b) Ergot of bajra  
c) Black gram powdery mildew d) Blast of finger millet
- Q.3 a) Describe in brief transmission and symptoms of Papaya ring spot disease.  
b) Describe the symptoms and perpetuation of Anthracnose of bean.
- Q.4 Write etiology and favorable environmental condition in respect of:  
a) Guava wilt b) *Phytophthora* blight of castor
- Q.5 Describe in brief the transmission and management of the following diseases:  
a) Tomato leaf curl b) Sterility mosaic of pigeon pea
- Q.6 Describe symptoms and management of the following diseases:  
a) *Phomopsis* blight of brinjal b) Black rot of crucifers
- Q.7 a) Justify Oily spot of pomegranate with respect to causes, symptoms and management.  
b) Describe in brief causal organism, symptoms and management of Collar rot of groundnut.
- Q.8 Describe etiology and management of the following diseases:  
a) Sigatoka of banana b) Downy mildew of maize
- Q.9 Give in detail management practices of the following diseases:  
a) Black shank of tobacco b) Yellow vein mosaic of okra  
c) Blister blight of tea d) Stem bleeding of coconut
- Q.10 a) Describe symptoms and management of Tikka of groundnut.  
b) Enlist important earhead diseases with cause and write in detail the management of Grain mold of sorghum.

**(P.T.O.)**

## SECTION 'B'

Q.11 Do as directed:

- 1) The genome of Tobacco mosaic virus is made of \_\_\_\_\_. (Fill in the blank)
- 2) Suicidal germination takes place in \_\_\_\_\_. (Fill in the blank)
- 3) Name one phytotoxin produced by the fungus causing Blast of paddy.
- 4) Give the cause of Khaira disease.
- 5) Give the causal organism of Black root rot of tobacco.
- 6) Give the causal organism of Buckeye rot of tomato.
- 7) Name the sexual spore that initiates primary infection in Damping off of tomato.
- 8) Mention the name of virus causing Yellow mosaic of green gram.

Q.12 Match the pairs:

'A'

'B'

- |                                  |  |
|----------------------------------|--|
| 1) Banana bunchy top             | a) <i>Cercospora personata</i>                         |
| 2) Leaf curl of papaya           | b) <i>Ustilago maydis</i>                              |
| 3) Soft rot of ginger            | c) <i>Phytophthora colocasiae</i>                      |
| 4) Geniculate conidia            | d) <i>Bemisia tabaci</i>                               |
| 5) Wilt of pigeon pea            | e) <i>Pythium aphanidermatum</i>                       |
| 6) Taro leaf blight of colocasia | f) <i>Xanthomonas compestris</i> pv. <i>compestris</i> |
| 7) Maize smut                    | g) <i>Pentalonia nigronervosa</i>                      |
| 8) Black rot of cabbage          | h) <i>Sporodochium</i>                                 |

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