



Roll No.....

End Semester Examination, December 2024

B. Sc. (Hons.) Agriculture – V Semester

Diseases of Field and Horticultural Crops-I
(SAAG313A)

Time: 2.5 hrs.

Max Marks: **40**

Instructions:

- 1) Question No. 1 under Section-A is compulsory.
- 2) Attempt any four from Q. No. 2 to Q. No. 6 under Section-B
- 3) Attempt any two from Q. No. 7 to Q. No.9 under Section-C

Section-A (Compulsory)

1. (a) Fill in the blanks with appropriate words: [CO-1] [L-2] 3

- (i) Yellow rust caused by *Puccinia striiformis* f. sp. *tritici* in
- (ii) Powdery mildew caused by *Pseudoidium anacardii* in
- (iii) Leaf curl caused by *Taphrina deformans* in

(b) Write the causal organism of the following diseases: [CO-1] [L-1] 2

- (i) Fire blight
- (ii) Mango malformation

(c) Give the name of the insect vector of the following viruses: [CO-3] [L-1] 2

- (i) Yellow vein mosaic in okra
- (ii) Papaya leaf curl

(d) Match the diseases given in Column-A with the crops in Column-B: [CO-1] [L-1] 3

Column-A

- (i) Crown Gall
- (ii) Gummosis

Column-B

- (a) Mango
- (b) Wheat

Section-B

2. Describe the damage symptoms and management of given diseases in mustard:

- a) Alternaria blight
- b) Downy Mildew

[CO-4] [L-3] 2 × 2=4

3. How Karnal bunt and powdery mildew in wheat cause damage and can be managed in that ecosystem?

[CO-4] [L-3] 4

4. Differentiate between the symptoms of downy mildew and powdery mildew in cucurbits along with their management practices.

[CO-4] [L-3] 4

5. How loose smut in wheat and fire blight in apple can be managed by keeping their survival into consideration?

[CO-4] [L-3] 4

6. Enlist the diseases of sugarcane along with the scientific name of causal organism and damage symptoms.

[CO-3] [L-3] 4

Section-C

7. Enlist the diseases of chickpea with scientific name along with the integrated management practices.

[CO-1,4] [L-3] 7

8. Analyse the type of damage and amount of losses can be caused by the pathogen in following fruit crops and suggest appropriate management practices:

- a) Apple
- b) Mango

[CO-1,4] [L-4] 7

9. How the pathogen of anthracnose, vascular wilt, and black arm establish in cotton?

[CO-3] [L-4] 7
