

FOURTH SEMESTER EXAMINATION 2021-22

M.Sc. BOTANY

Paper - IV

Pathology - Diseases of Crop Plants

Time : 3.00 Hrs.

Max. Marks : 80

Total No. of Printed Page : 03

Mini. Marks : 29

Note:- Question paper is divided into three sections. Attempt question of all three section as per direction Distribution of marks is given in each section.

Section 'A'

Very short answer question (in few words)

Q.1 Attempt any six questions from the following :

6x2=12

- (i) What is infection ?
- (ii) What is Pesticides ?
- (iii) What is soil born diseases ?
- (iv) Give the name of pathogen caused by citrus canker diseases.
- (v) Define parasitic diseases with examples.
- (vi) What is penetration ?
- (vii) Give the name of any two plant diseases caused by mycoplasma.
- (viii) What is Smut ?
- (ix) Define non pathogenic disease with example.

Section 'B'

Short answer type question (in 200 words)

- Q.1 Attempt any four questions from the following : 4x5=20
- (i) Distinguish between mosaics and curl.
 - (ii) Explain the Red Rot disease of sugarcane.
 - (iii) Describe the water borne plant diseases.
 - (iv) Give the brief account of Biological control of plant diseases.
 - (v) Distinguish between powdery mildew and Downy mildew.
 - (vi) Explain the transmission of plant-viruses.
 - (vii) Explain the two fungal diseases in crop plants.

Section 'C'

Long answer/Essay type question.

4x12=48

- Q.3 Attempt any four questions from the following questions :
- (i) Describe the significance of Phyllosphere and Rhizosphere.
 - (ii) Describe the symptoms name of pathogen disease cycle and control measures of Tikka disease of ground nut.
 - (iii) Describe the plant diseases caused by nematodes.
 - (iv) Write notes on following :
 - a. Covered smut of wheat
 - b. Bunchy top of Banana
 - c. Leaf curl of Papaya.
 - (v) Write the diseases symptoms and name of causal organisms of following diseases:
 - a. Late blight of Potato

(3)

- b. Black Rust
 - c. Blast disease of Rice.
- (vi) Describe the disease cycle of following diseases.
- a. Grassy shoot of Sugarcane
 - b. Early blight of Potato
 - c. Little leaf of Brinjal

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