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H-6622

M.Sc. (Semester-II) Examination, 2022

BOTANY

(Pathogens and Pests of Crop Plants)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 25

Note : This question paper is divided into four sections.Attempt questions as per given instructions in each section. Distribution of marks is given in each section.

Section-'A'

(Objective Type Questions)

Note : Attempt **any ten** questions. Each question carries **1** marks. [1x10=10]

1. Fill in the blanks :

   1. Apart from Wheat, an alternate host of Rust Disease is ----------.

   2. In Chemical defence from pathogen plants produce ----------.

   3. Fungus *Scleroceps purpurea* causes disease of ----------.

   4. Causal organism of Wart disease of potato is ----------.

   5. In an Insect resistance Cotton The Resistant Gene is inserted from ----------.

   6. *Colletotrichun falcatum* fungus belongs to a class of fungi called ----------.

   7. High spereading of disease is called ----------.

   8. *Mythimna convecta, Persectania ewingii, Persectania dyscrita* pests are commonly called as :

(a) Armyworm

(b) Moth

(c) Gross hopper

(d) Butterfly

9. Locusts belong to the Acrididae family, of the Orthoptera order, Commonly Known as :

(a) Armyworm

(b) Moth

(c) Gross hopper

(d) Butterfly

10. Nexgard insecticide is used to control :

(a) Armyworm

(b) Moth

(c) Gross hopper

(d) Butterfly

11. Best method of disease controle is :

(a) Physical control

(b) Chemical Control

(c) Biological Control

(d) Radiation Control

12. Non pathogenic disease in Crop plants is also called :

(a) Parasexual disease

(b) Genetic disease

(c) Deficiency disease

(d) Abnormality disease

Section-'B'

(Very Short Answer Type Questions)

Note : Give the contribution of **any three** pathologists. (Word limit 70-100) : [5x2=10]

(1) B.B. Mundkur

(2) De Barry

(3) Robert Cotch

(4) K.C. Mehta

(5) B.L Chona

Section-'C'

(Short Answer Type questions)

Note : Write shart notes on **any four** questions out of **five** given below. Each question carries **5** marks. [5x4=20]

(1) Cercospora personata (Fungus)

(2) Crop rotation Grop rotation

(3) Pandemic disease

(4) Defence mechanism of plants

(5) Physiological specialization

Section-D

(Essay Type Questions)

Note : Attempt **any three** questions in **500-700** words each. Each question carries **10** marks. [3x10=30]

7. Explain structure and reproduction of Virus.

8. describe any crop disease caused by Nematode.

9. Describe biological control of disease and pest.

10. Discuss host nematode interaction in special reference with Meloidogynesp on tomato.

11. Differentiate between beneficial and Harmful insects.

12. Write a notes on Non-pathogenic diseases.

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