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Total No. of Pages : 02

Total No. of Questions : 08

B.Sc. (Agriculture)/B.Sc. Hons. (Agriculture) (2014 to 2018) (Sem.-6)

**DISEASES OF HORTICULTURAL CROPS
AND THEIR MANAGEMENT**

Subject Code : BSAG-602

M.Code : 74345

Date of Examination : 18-06-21

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE question(s), each question carries 12 marks.

1. Identify the pathogen and write name of the disease(s) caused by it :
 - a) Sporangiophores branched at base with rhizoids
 - b) Flask shaped, ostiolate sexual fruiting body consisting of asci and ascospores
 - c) Single celled, elliptical and hyaline sporangia borne on sporangiophores which are branched at right angles
 - d) Branched conidiophores resembling a brush like head
 - e) Muriform conidia having beak
 - f) Fruiting body consisting of two parts-Pileus (umbrella) and stalk.
2. Differentiate between the following :
 - a) Common scab and black scurf of potato
 - b) Partial and complete wilt of guava
 - c) Yellow vein mosaic and root knot of okra
 - d) Leaf curl and mosaic of papaya
3. Comment upon the following statements :
 - a) Peach leaf curl is a fungal disease.
 - b) Late blight of potato is of historical importance.
 - c) Rhizoctonia is a soil-borne pathogen.
 - d) Dry weather conditions are favourable for powdery mildew fungi.

4. Answer the following :
- a) Farmer of Bathinda district has grape orchard. His crop was severely infected with circular, light brown spots surrounded by dark brown to black margins on berries and gave bird's eye spot appearance. Identify the disease and suggest its suitable measures to minimize the problem.
 - b) Farmer of Ludhiana district has grown pea crop. Some plants are showing circular, sunken and tan to brown coloured spots on leaves and pods and pycnidia (black dots) are developed towards centre of these spots. Identify the field problem and suggest its suitable remedial measures.
 - c) Farmer of Malerkotla district has gladiolus nursery. The infected leaves exhibited lesions with brown or grey centres covered with grey masses of spores. The tips of the leaves turned yellow. Identify the disease and suggest its suitable measures to minimize the problem.
5. Describe the factors responsible for outbreak of epidemic of apple scab with details of its disease cycle.
6. What eco-friendly methods one must undertake to manage the viral diseases of vegetables?
7. Describe in detail the symptoms, causal organism, perpetuation and integrated management of Phytophthora foot rot and root rot of citrus.
8. Show with the help of neat and labelled diagrams the disease cycle of early blight of tomato.

Note: Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.