

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: PATH 365	Title	: Diseases of Field and Horticultural Crops and their Management-II		
Credits	: 3 (2+1)	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80
Day & Date	: Thursday, 13.07.2023				

- 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 Draw neat labeled diagram of disease cycle and causal organism of following diseases (Any Two):
- a) Loose smut of wheat b) Powdery mildew of grape c) Leaf rust of wheat
- Q.2 Describe symptoms and suggest suitable management practices for following diseases:
- a) Downy mildew of sunflower b) Downy mildew of grapevine
- Q.3 Describe symptoms and suggest suitable management practices for following diseases (Any Two):
- a) White rust of mustard b) Red rust of mango c) Black stem rust of wheat
- Q.4 Describe symptoms and give management practices for following diseases (Any Two):
- a) Linseed rust b) Gram wilt c) Turmeric leaf spot
- Q.5 Enlist any four diseases of cotton with causal organisms and describe symptoms, epidemiology. Suggest suitable management practices for Black arm of cotton.
- Q.6 Write short notes on (Any Two):
- a) Black leaf spot of rose b) Fruit rot of chilli c) Bulb and neck rot of garlic
- Q.7 a) Enlist diseases of sugarcane. Describe symptoms and suggest suitable management practices for Whip smut of sugarcane.
- b) Enlist diseases of onion. Describe symptoms and suggest suitable management practices for Purple blotch.
- Q.8 a) Enlist diseases of cucurbits. Describe symptoms and suggest suitable management practices for Downy mildew.
- b) State any four diseases of potato with causal organisms. Describe symptoms and suggest suitable management practices for Late blight of potato.

(P.T.O.)

- Q.9 a) Enlist any four diseases of citrus with causal organisms. Describe symptoms and management practices for Citrus canker.
b) State any four diseases of apple with causal organisms. Describe symptoms and management practices for Fire blight of apple.
- Q.10 Write down causal organism and mode of transmission of following diseases:
a) Cucumber mosaic b) Grape fan leaf c) Citrus exocortis d) Apple mosaic

SECTION 'B'

- Q.11 Answer the following in one sentence:
- 1) Which mango disease is caused by Algae pathogen?
 - 2) On which side of leaf, aeciospores of Wheat rust fungi are borne?
 - 3) How many spores are produced by Macro cyclic rust?
 - 4) Write down causal organism of Leaf spot of strawberry.
 - 5) Give required time and temperature for hot water treatment for Loose smut of wheat.
 - 6) Which is the vector for Fan leaf disease of grapevine?
 - 7) Which is a vector for Citrus greening disease?
 - 8) Name the parasitic weed in mango crop.
- Q.12 State True or False:
- 1) Powdery mildew of pea is *Erysiphe pisi*.
 - 2) Peach leaf curl is caused by virus.
 - 3) Rust of lentil is caused by *Uromyces viciae-fabae*.
 - 4) Barberry is alternate host of Black stem rust of wheat in India.
 - 5) Coriander stem galls are caused by *Protomyces macrospores*.
 - 6) Leaf curl of chilli is transmitted by thrips vector.
 - 7) Citrus Tristeza disease is caused by *Toxoptera citricida*.
 - 8) White rust is systemic disease in cucurbit crops.

