MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Agriculture

Semester	: **V(New)**	**Term**	: **I**	**Academic Year**	: **2019-20**
Course No.	: PATH 354	**Title**	:	**Diseases of Field and Horticultural Crops and Their Management - I**	
Credits	: 3 (2+1)				
Day & Date	: Wednesday, 06.11.2019	**Time**	: 14.00 to 17.00	**Total Marks**	: **80**

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 diagrams wherever necessary.

SECTION "A"

Q.1 Write symptoms and management of the following diseases. (Any Two) :

a) Foot rot of papaya b) Panama wilt of banana c) Phomopsis blight of brinjal

Q.2 Describe symptoms of the following diseases.

a) Yellow vein mosaic of okra b) Bunchy top of banana

c) Leaf curl of papaya d) Mosaic of tomato

Q.3 Enlist causal organisms, symptoms, survival and spread and management of bacterial blight of pomegranate.

Q.4 Enlist casual organisms, major symptoms, perpetuation and management of the following diseases. (Any Two)

a) Anthracnose of beans b) Rust of coffee c) Early blight of tomato

Q.5 Enlist different smuts of sorghum with their causal organisms. Write about grain mould of sorghum in terms of causal fungi, symptoms and management.

Q.6 Explain in detail symptoms and transmission of the following disease.

a) Tobacco mosaic b) Pigeonpea sterility mosaic

c) Rice Tungro disease d) Yellow mosaic of black gram

Q.7 Describe symptoms of the following diseases.

a) Downy mildew of maize b) Downy mildew of bajra

c) Late leaf spot of groundnut d) Blast of paddy

Q.8 Comment on causal organism, symptoms and etiology of the following diseases.

a) Ergot of bajra b) Anthracnose of sorghum

Q.9 Write short notes. (Any Two)

a) Pigeonpea wilt b) Coconut bud rot

c) Guava wilt

Q.10 Explain in detail about black rot of cabbage.

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SECTION "B"

Q.11 State True or False.

1) Brown spot disease of paddy is not soil borne.

2) Dwarf Cavendish bananas are generally resistant to panama wilt.

3) Summer sown black gram is highly susceptible to yellow mosaic disease.

4) Taichung Native 1 variety of paddy is highly susceptible to bacterial blight.

5) *Tolyposporium eherenbergii* is air borne pathogen.

6) Secondary spread of false smut of paddy is accomplished through chlamydospores.

7) *Pycnial* and *aecial* stages of coffee rust are not known.

8) *Exobasidium vexans* causes blister blight in tea plantations.

Q.12 Do as directed.

1) Name the sexual spore which initiates primary infection in damping off of tomato.

2) Akiochi symptom of paddy is a result of deficiency of _____ nutrient in the soil. (Fill in the blank)

3) State causal organism of *Phytophthora* blight of castor.

4) *Fusarium oxysporum f.sp.cubense* is soil borne and mainly survive in the form of _____ . (Fill in the blank).

5) Name one phytotoxin produced by the fungus causing brown spot of paddy.

6) Paddy bacterial blight resistant gene *Xa21* is isolated from _____.(Fill in the blank)

7) Enlist name of the virus causing mosaic disease in soybean.

8) Bunchy top of banana is transmitted by _____. (Fill in the blank)

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