MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: V (Old)				
Course No.	: PATH 354	Term	: I	Academic Year	: 2018-19
Credits	: 3(2+1)	Title	: Diseases of Horticultural Crops and their Management		
Day & Date	: Monday, 12.11.2018	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 a) Enlist any five diseases of tomato. Describe in brief about symptoms and management of early blight of tomato.

b) Give the symptoms, host range transmission and management practices of leaf curl of chilli.

Q.2 a) Describe in brief about symptoms, causal organism, perpetuation and management of purple blotch of onion.

b) Write in short symptoms, causal organism, transmission and management of yellow vein mosaic of okra.

Q.3 Write short notes (Any Two).

a) Black spot disease of rose.

b) Powdery mildew of ber.

c) Koleroga disease of arecanut.

Q.4 a) Enlist any five important diseases of grapes and describe in detail about symptoms, survival, perpetuation and management of bacterial blight of grapes.

b) Write the symptoms and transmission of papaya mosaic and papaya leaf curl disease.

Q.5 a) Write the characteristic symptoms and management of sigatoka disease of banana.

b) Write in concise the strategies for management of bacterial blight of pomegranate.

Q.6 a) Enlist the different types of malformation in mango and write the management of anthracnose disease of mango.

b) State the causal organism and symptoms of phytophthora wilt disease of betelvine.

Q.7 Write the management practices of the following diseases.

a) Citrus tristeza

b) Fruit rot of sapota

c) Black rot of crucifers

d) Onion smudge

Q.8 Describe the characteristic symptoms of the following diseases.

a) Anthracnose of guava

b) Fire blight of apple

c) Downy mildew of cucurbits

d) Gummosis of citrus

(P.T.O.)

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Q.9 Write mode of transmission and control measures of the following diseases.

a) Bunchy top of banana

b) Tomato mosaic

c) Cucumber mosaic

d) Apple mosaic

Q.10 a) Describe the causes and management of black heart of potato.

b) Comment on symptoms, causal organism, survival, perpetuation and management of rust of beans.

SECTION "B"

Q.11 Fill in the blanks.

1) _____ pathogen causes 'bird's eye disease' of grapes.
2) Coconut root wilt is caused by_____.
3) Little leaf disease of brinjal is transmitted by _____ insect vector.
4) Mottle leaf of citrus is caused due to _____deficiency.
5) Rust of jasmine is caused by _____.
6) Cadang-cadang disease of coconut is caused by_____.
7) Banana bunchy top virus has a genome of _____.
8) Chrysanthemum stunt is caused by_____.

Q.12 Match the following pairs.

'A'	'B'
1) *Erwinia amylovora*	a) Bunchy top of banana
2) *Ralstonia solancearum*	b) Coffee rust
3) *X. campestris* pv.*campestris.*	c) Oily leaf spot of pomegranate
4) *Cerotelium fici.*	d) Fire blight of apple
5) *Hemilia vastatrix.*	e) Little leaf of brinjal
6) *X.axanopodis* pv. *punicae*	f) Bacterial wilt of tomato
7) *Hishimonas phycitis*	g) Fig rust
8) *Pentalonia nigronervosa*	h) Black rot of crucifers

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