MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: V (New)				
Course No.	: PATH 354	**Term**	: I	**Academic Year**	: 2017-18
Credits	: 3(2+1)	**Title**	: Diseases of Horticultural Crops and their Management		
Day & Date	: Monday, 13.11.2017	**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) State the causal organism of panama wilt of banana and describe its etiology and perpetuation.

b) Describe the symptoms and management of white rust of crucifers.

Q.2 a) Describe the symptoms and transmission of papaya ring spot.

b) Explain the symptoms and management of citrus tristeza.

Q.3 a) State the causal organism; describe etiology and management of downy mildew of grapes.

b) Describe the symptoms of mango malformation.

Q.4 a) Explain the symptoms, perpetuation and management of black spot of rose.

b) Describe in short about apple scab.

Q.5 a) Enlist important diseases of guava along with their causal organisms.

b) Name the causal organism, describe the symptoms and management of fig rust.

Q.6 a) Explain in detail the oily spot disease of pomegranate.

b) Enlist the diseases of cucurbits along with their causal organisms.

Q.7 a) Describe the symptoms, mode of spread and management of yellow vein mosaic of okra.

b) Describe symptoms and management of bacterial wilt of brinjal.

Q.8 a) Explain the symptoms of onion smudge.

b) Discuss etiology, perpetuation and management of potato scab.

Q.9 a) Describe symptoms perpetuation and management of ripe fruit of chili.

b) Explain in detail about early blight of tomato.

Q.10 a) Describe in detail about Koleroga of arecanut.

b) Describe symptoms and management of foot rot of betel vine.

(P.T.O.)

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SECTION "B"

Q.11 Match the following pairs.

"A"	"B"
1) *Colletotrichum lindemuthianum*	a) Partial stem parasite
2) *Hemilia vasatarics*	b) Viroid
3) *Fusarium oxysporum* f.sp.*gladioli*	c) Crown gall
4) *Phytophthora* spp.	d) Seed borne
5) *Agrobacterium*	e) Uredospores
6) *Dendrophthoe falcate*	f) Aeciospores
7) Coconut cadang cadang	g) Wilt
8) *Uromyces hobsoni*	h) Rainy season

Q.12 Do as directed.

1) The perfect stage of *Colletotrichum gloeosporioides* is _____.
2) Cashew die back is caused by _____.
3) State the vector of grapevine fan leaf virus.
4) Write the different hosts of *Erysiphae cichoracearum.*
5) Onion smut organism does not form basidiospores. (State true or false)
6) In which genus the sporangia are produced in chain?
7) Bunchy top of banana is transmitted by_____.
8) Black leaf spot of ber is caused by_____.

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