Padmashree Dr. D. Y. Patil College of Agriculture A/P: Talsande, Tal : Hatakangle, Dist. : Kolhapur

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

-	Semest Course Credits Day &	No. : PATH 354 Title : Diseases of Horticultural Crops and their Management Title : Diseases of Horticultural Crops and their Management Title : Diseases of Horticultural Crops and their Management								
-		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.								
٠		SECTION "A"								
		Enlist any five important diseases of potato and describe in detail about late blight of potato.								
	Q.2	Describe in brief about the Purple blotch of Onion.								
	Q.3	Write the causal organism, symptoms, etiology and management strategies of panama wilt of banana.								
	Q.4	Describe the symptoms, etiology, perpetuation and control measures of powdery mildew of rose.								
	Q.5	What are the types of mango malformation and write the causal nature of flowering parasite with control measures.								
	Q.6	Describe the symptoms of anthracnose of bean with perpetuation of pathogen and management.								
	Q.7	Justify oily spots of pomegranate causes the qualitative and quantitative losses and write the control measures to be adopted.								
	Q.8	What are the characteristic symptoms of dieback of chilli with perpetuation of pathogen and its management?								
	Q.9	Enlist any five important diseases of grape and describe in detail about downy mildew of grape.								
112	Q.10	Write short notes: (Any Two)								
Pin Code : 416 112		1) Yellow vein mosaic of okra 2) Black rot of crucifers								
Pin Cod		3) Rust of coffee 4) Foot rot of betelvine								
	SECTION "B"									
	Q.11	Fill in the blanks.								
		1) Black heart of potato aggravate at temp above °C.								
		2) The fungicide Metalaxyl MZ is effective against diseases caused by 3) Phytoplasmal disease in brinjal caused due to								
		4) Irish famine is related to epidemic of								
		5) Red onions are disease resistant due to presence ofchemical.								
		(P.T.O.)								

- Describe in detail about downy mildew of cucurbits. Q.9
 - Write in detail about late blight of potato.
- Q.10 Write symptoms and transmission of papaya leaf curl and papaya ring spot virus disease.
 - b) Enlist diseases of Aster and Marigold and describe in detail powdery mildew of Marigold.

SECTION "B"

- State True or False. Q.11
 - 1) Fruit canker of guava is caused by Xanthomonas campestris pv. citri.
 - Pink disease of mango is caused by Botrydiplodia theobromae.
 - Infectious cholorosis disease of banana is bacterial disease.
 - 4) Grape fan leaf virus is transmitted by vector nematode.
 - Cross protection phenomenon is useful in management of viral diseases.
 - Citrus exocortis is viral disease.
 - Agrobacterium tumefaciens causes crown gall in apple.
 - 8) Alternaria dianthi causes wilt of gladiolus.
- Q.12 Match the pairs.

"A"

- Loranthus of mango
- Black leaf spot of ber
- Pestalotiopsis psidii
- Black heart of potato
- Fruit rot of custard apple
- Onion smut
- Powdery mildew of chilli
- Mottling in citrus

"B"

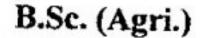
- Trichothecium roseum
- Fruit canker in guava
- Partial stem parasite
- Leveillula taurica d)
- Urocystis cepulae
- Deficiency of oxygen
- Zn deficiency g)
- Isoriopsis indica var. ziziphi h)
- Erysiphe cichoracearum



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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION SEMESTER END EXAMINATION



Semester	:	V (New)	Term	•	1	• 1/		
Course No.				25	· · · · · · · · · · · · · · · · · · ·	mic Year : 2		
Credits		3(2+1)	Title	:	Diseases of Hortic	cultural Crops a	nd	their
Day & Date	:	Monday, 22.10.2012	Time	:	14.00 to 17.00	Total Marks		80
Note:	1.	Solve ANY EIGHT que	estions from 9	SF	CTION "A"			

- All questions from SECTION "B" are compulsory.
- All questions carry equal marks.
- Draw neat diagrams wherever necessary.

SECTION "A"

- Enlist any five important diseases of citrus and describe in short about citrus Q.1 canker.
 - b) Describe symptoms, causal organism and management strategies for Sigatoka disease of banana.
- a) Give detailed account of causal organism, symptoms, epidemiology and Q.2 management of downy mildew of grape.
 - b) Write causal organism, symptoms and management for powdery mildew of
- a) Describe in detail about the yellow vein mosaic of okra. Q.3
 - b) Write in detail about Cadang-cadang disease of coconut.
- Q.4 Give in short symptoms, causal organism, perpetuation and management of following diseases. (Any Two)
 - 1) Oily spot of Pomegranate
- 2) White rust of crucifers
- 3) Powdery mildew of rose
- Enlist any five importance diseases of tomato and describe symptoms and Q.5 management of early blight of tomato.
 - b) Write in detail about purple blotch of onion.
- Describe symptoms, causal organism and management of following diseases. Q.6 (Any Two)
 - 1) Phomopsis blight of brinjal
- 2) Anthracnose of chilli

- 3) Rust of coffee
- Q.7 Write down diagnostic symptoms and causal organism of following diseases. (Any Four)
 - 1) Rust of Jasmine

- 2) Anthracnose of beans
- 3) Wilt disease of betelvine
- 4) Neck and bulb rot of garlic

5) Wilt disease of guava

- 6) Leaf spot of chrysanthemum
- a) Describe in detail about fire blight of apple. Q.8
 - b) Write in detail about Koleroga disease of arecanut.



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SECTION "B"

State True or False.

- Xanthomonas campetris pv. campestris is seed borne in nature.
- Streptomyces scabies is gram positive bacterium.
- Cadang cada disease of coconut is caused by viroid.
- Red rust of tea is an algal disease.
- Alternaria dianthi causes wilt of gladiolus.
- Powdery mildew of chilli is caused by Erysiphe capsici.
- Fruit drop of sapota is severe during winter period.
- Guava canker is a bacterial disease.

Q.12 Match the pairs.

"A"

"B"

Alternaria tagetica

Trichothecium roseum

Oidium piperis

Cerotelium fici

Urocystis cepulae

1) Will Of tolliato	1)	Wilt	of	tomato
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- Anthracnose of cucurbits
- Anthracnose of guava
- Onion smut
- Leaf spot of marigold
- Fig rust
- Fruit rot of custard apple
- Glomerella psidii
- Powdery mildew of betelvine
- Colletotrichum lagenarium
- Fusarium oxysporum f.sp.lycopersici



b)

c)

d)

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : V (New)

Course No. : PATH 354

Credits : 3(2+1)

Day & Date : Tuesday, 20.09.2011

Term : I Academic Year : 2011-12

Title : Diseases of Horticultural Crops and their Management

Time : 14.00 to 17.00

Total Marks : 80

Note:

- . Solve ANY EIGHT questions from SECTION "A".
- 2. All questions from SECTION "B" are compulsory.
- 3. All questions carry equal marks.
- Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 a) Describe cause, symptoms and management of apple scab.
 - b) Give host range of: 1) Pseudomonas solanocearum
 - 2) Colletotrichum gloeosporioides
- Q.2 a) Describe symptoms and control measures of oily spot of pomegranate.
 - b) State causal organisms of diseases of rose.
- Q.3 a) Write symptoms and management of sigatoka disease of banana.
 - b) Describe management practices for control of anthracnose of mango.
- Q.4 a) Describe causes and management of black heart of potato.
 - b) Write a note on Fusarium wilt of carnetion.
- Q.5 a) Describe symptoms of white rust of cruciferous crops.
 - b) Write symptoms and transmission of papaya leaf curl and papaya ring spot.
 - a) State cause and describe symptoms of root wilt of coconut.
 - b) Write control measures of onion smudge disease.
 - a) Describe symptoms of downy mildew of grape.
 - b) Write disease cycle and control measures of Phomopsis blight of brinjal.

Write the mode of perpetuation of the following diseases.

- 1) Kole roga of areca nut
- 2) Die back of cashew

3) Chilli anthracnose

- 4) Coffee rust
- Write short notes on (Any Two)
- 1) Powdery mildew of ber
- 2) Jasmine rust
- 3) Anthracnose of beans
- Q.10 Write mode of transmission and control measures of the following (Any Two)
 - 1) Bunchy top of banana
- 2) Yellow vein mosaic of okra

3) Citrus tristiza

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	ree	F
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2. 44	. •										
***	6) Fruit canker of guava is caused by Xanthomonas campestries pv. Citri.										
	7) A	nthra	cnose of bean is man	aged by seed	treat	ment with carbendazim.					
	15	łot wa Brinja		found ineffec	tive i	for control of Phomopsis blight of	f				
	9) (Gemir	ni virus is responsible	e for leaf curl	of to	mato.					
	10)	'Pusa	Ratna' is a resistant	variety of okr	a for	yellow vein mosaic.					
Q.9	Fill	in the	blanks.								
	1)	The i	ncidence of mango roer.	nalformation	is re	duced by sprayingduri	ng				
	2)	Red S	Sultana is highly resis	stant variety o	f	for powdery mildew.					
	3)	In Inc	dia Citrus canker was	reported first	t fron	state in 1940.					
	4)	Ring	ling spot of Papaya is transmitted by								
			e rust of crucifer is ca								
	6)		nana mosaic was first reported induring 1929.								
	7)		tion of fire blight ca al opening.	using bacteria	in a	apple takes place through					
	8)	Fig n	ust is incited by								
	9)	Koler	rola of areca nut can	be controlled	by ro	oot feeding with					
	10)		disease of pota	ato is caused of	due to	poor ventilation in storage.					
Q.10	Ma	tch the	e pairs.								
			"A"			"B"					
		1)	Loranthus of mange	0	a)	Viroid					
2		2)	Grape vine fan leaf	virus	b)	Fijji					
Pin Code : 416 112		3)	Citrus exocortis		c)	Erysiphe chichoracearum					
in Code		4)	Bunchy top		d)	Psedomonospora cubensis					
		5)	Downy mildew of	cabbage	e)	Leveillula taurica					
¥		6)	Powdery mildew of	f gerbera	f)	Isoriopsis indica var ziziphi					
		7)	Black leaf spot of b	er	g)	DNA virus					

Partial stem parasite

Peronospora parasitica

Xiphinema index

Yellow vein mosaic of ladies

Downey mildew of cucurbits

Powdery mildew of Marigold

finger

9)

10)

112

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester : V (New) Term : I Academic Year : 2010-11
Course No. : PATH 354 Title : Diseases of Horticultural Crops and their

Credits: 3(2+1) Management

Note: 1. Solve ANY FIVE questions from SECTION "A".

2. All questions from SECTION "B" are compulsory.

All questions carry equal marks.

4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Enlist the important diseases of grape along with causal organisms, with symptoms and management strategies of downy mildew.
- Q.2 Write down causal organism, symptoms, etiology, perpetuation, epidemiology and management of Oily spot of Pomegranate.
- Q.3 Enlist the diseases of banana, write down the symptoms and management of 'Sigatoka of Banana'.
- Q.4 Write down causal organisms, etiology, perpetuation, epidemiology and management of purple blotch of onion.
- Q.5 State the symptoms of following diseases.
 - 1) Anthracnose of mango 2) Citra
 - 2) Citrus canker
- 3) Ring spot of papaya
- 4) Yellow vein mosaic of lady's finger
- Q.6 Write down the management of following diseases.
 - 1) Rust of Jasmine

- 2) Alternaria leaf spot of carnation
- 3) Powdery mildew of Gerbera
- 4) Wilt of gladiolus
- Q.7 Write short notes on (Any Two)
 - 1) Anthracnose of Chilli
 - 2) Bacterial wilt of Brinjal
 - 3) Late blight of Potato

SECTION "B"

- Q.8 State True or False.
 - 1) Dieback of mango is caused by Botryodiplodia theobromae.
 - 2) Bacterial canker of grape is caused by Pseudomonas campestries pv. Viticola
 - 3) Genus *Phytophthora* is responsible to cause the gummosis of citrus.
 - 4) Cigar end rot of Banana is a bacterial disease.
 - 5) Papaya mosaic is a aphid transmitted virus disease.

		6) _	a bacteria causes black rot a cabbage.				
		7) Anthracnose of grape is caused by					
		8)_	a pathogenic bacterial causes wilt in solanecious cr				
Ç	2.12	Mate	ch the pairs.				
		7	"A"		"B"		
Y. Patil College of Agriculture		1)	Coffee rust	a)	Pomogranate		
Agric	lhapur	2)	Blotch of chrysanthemum	b)	Hemilia Vastatrix		
ge of	ist. : Ko	3)	Loranthus	c)	Onion		
Colle	angle, D	4)	Alternaria Porii	d)	Septroria sp.		
. Pati	Tal: Hatakangle, D	5)	X. axonopodis pv punicae	e)	Mango		
	ide, Tal	6)	Myzus persacae	f)	Streptomyces scabies		
Imashree Dr. D.	A/P: Talsande, Tal : Hatakangle, Dist. : Kolhapur Pin Code : 416 112	7)	Blossom end rot of tomato	g)	Okra		
lmash	AP	8)	Potato Scab	h)	Difficiency		

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A/P: Talsande, Tal: Hatakangle, Dist.: Kolhapur

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

,	Semest Course Credit Day &	e No. : PATH 354 s : 3(2+1)	Term: I Academic Year: 2013-14 Title: Diseases of Horticultural Crops and their Management Time: 14.00 to 17.00 Total Marks: 80						
	3	Note: 1. Solve ANY EIGHT question 2. All questions from SECTIO 3. All questions carry equal ma 4. Draw neat diagrams wherev	N "B" are compulsory. arks.						
		SE	CTION "A"						
	Q.1	Enlist any five important diseases of of potato.	potato and describe in detail about late blight						
	Q.2	Describe in brief about the Purple ble	otch of Onion.						
	Q.3	panama wilt of banana.	oms, etiology and management strategies of						
	Q.4	Describe the symptoms, etiology, perpetuation and control measures of powdery mildew of rose.							
	Q.5	What are the types of mango malformation and write the causal nature of flowering parasite with control measures.							
	Q.6	Describe the symptoms of anthracnose of bean with perpetuation of pathogen and management.							
	Q.7	Justify oily spots of pomegranate car write the control measures to be ado	uses the qualitative and quantitative losses and pted.						
	Q.8	What are the characteristic symptoms of dieback of chilli with perpetuation of pathogen and its management?							
112	Q.9	Enlist any five important diseases mildew of grape.	of grape and describe in detail about downy						
	Q.10	Write short notes: (Any Two)							
Pin Code: 416	1016A	1) Yellow vein mosaic of okra	2) Black rot of crucifers						
Pin		3) Rust of coffee	3) Rust of coffee 4) Foot rot of betelvine						
	200	SE	CTION "B"						
	Q.11	Fill in the blanks.	. 90						
		1) Black heart of potato aggravate at	temp aboveC.						
			fective against diseases caused by						
	•	3) Phytoplasmal disease in brinjal ca							
		4) Irish famine is related to epidemic	ue to presence ofchemical.						
		5) Red omons are disease resistant d	(P.T.O.)						

			6)		a bacteria c	auses bla	ck rot	a cab	bage.	4
			7)	A	nthracnose of grape i	s caused b	by	===		
			8)	_	a pathogen	ic bacteria	al caus	es w	ilt in solanecious	crops
	Q.12	2	M	ato	ch the pairs.					
					"A"				"B"	
			1)	Coffee rust			a)	Pomogranate	
			2	2)	Blotch of chrysanth	emum		b)	Hemilia Vastatri	X
			3	3)	Loranthus			c)	Onion	
			4	(1	Alternaria Porii		-	d)	Septroria sp.	
			5	5)	X. axonopodis pv pr	ınicae	-	e)	Mango	
			-6	5)	Myzus persacae			f)	Streptomyces sca	abies
	lture			7)	Blossom end rot of	tomato		g)	Okra	
	gricu	abnr		3)	Potato Scab			h)	Difficiency	
	of A	 Kolh				* * *	> 	* *	* * *	
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Pin Code : 416 112

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester Course No. Credits Day & Date		: V (New) : PATH 354 : 3(2+1) : Wednesday, 21.10.201	emic Year : 2015-1 icultural Crops and the		
	Note:		questions from SI ECTION "B" are qual marks.	compulsory.	LIBRA!
			SECTION "A	4"	Kolhat a
Q.1	Enlist milde	st any five important dis ew.	eases of grape	and describe in de	etail about downy
Q.2	Descr	ribe the symptoms and co	ontrol measures f	for black rot of crue	cifers.
Q.3		t are the types of mango r site with control measures		d write the causal n	ature of flowering
Q.4		ribe the symptoms, etiol ew of rose.	ogy perpetuation	and control meas	sures for powdery
Q.5		e the casual organism, ma wilt of banana.	symptoms, etiol	ogy, and manager	ment strategies of
Q.6	Descr	cribe in brief about the yel	llow vein mosaic	of okra.	
Q.6 Q.7 Q.7		fy oily spot of pomegran the control measures to		ualitative and quan	ntitative losses and
Q.8		t are the characteristic sogen and management of		eback of chilli wi	th perpetuation of
Q.9	Enlis	st any five important dise	ases of potato an	d describe in detail	about late blight.
Q.10	Write	e short notes on (Any two	o).		
	1) F	Foot rot of betelvine	2) I	Rust of coffee	
	3) A	Anthracnose of bean	4) I	Purple blotch of on	ion
			SECTION "	В"	
Q.11	Fill in	in the blanks.			
	1) Ph	hytoplasmal disease in br	injal is transmitte	ed by	
	2) Th	he fungicide Metalaxyl M	IZ is effective ag	gainsto	f grape.
	3)	is a causal or	ganism of black	rot of cabbage.	
	4) Iri	ish famine is related to ep	oidemic of	· · · · · ·	
	5)	a pathogenic l	pacteria causes v	vilt in solanecious o	crops.
	6) Re	ed onions are disease resi	stant due to pres	ence of chemical_	<u> </u>
	7) Ar	nthracnose of grape is car	used by	·•	
	8) Bl	lack heart of potato aggra	vate at temp abo	ove°C.	

(P.T.O.)

Q.12 Match the following pairs.

				"A"				"B"
			1)	Loranthus	*		a)	Onion
٥		i	2)	X. axonopodispv bunic	сае		b)	Hemiliavastaírix
cultur	College of Agriculture ngle, Dist.: Kolhapur 16 112		3)	Coffee rust		:	c)	Pomegranate
of Agri	A/P: Talsande, Tal : Hatakangle, Dist. : Kolhapur Pin Code : 416 112		4)	Alternaria porii			d)	Septoria sp.
ellege o	e, Dist. :	× •.	5)	Blotch of chrysanthen	num		e)	Okra
Patil Co	takangle, D	30 %	6)	Potato scab			f)	Streptomyces scabies
>:	Tal: Hata Pin Code	*	7) .	Citrus tristeza			g)	Mango
e Dr. I	alsande,		8)	Bemicia tabici			h)	Stem pitting
dmashree Dr. D.	A/P: T				* * * *	*	* * *	\$ \$ \$
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