Supervisor's signature:		Centre:	
Uni.	. Seat No.	Registration No	
Anand Agricultural University, Anand Junagadh Agricultural University, Junagadh		IVERSITIES OF GUJARAT 2. Navsari Agricultural University, Navsari	
Day:	PART -	A (Objective) es of Horticultural Crops and their Management (2 Time: 9.30 to 10.15 hrs. Marks: 40.00	
Note:	 All the questions carry equal marks. Over marking should be avoided. 	Marks obtained	
Q.1	Tick mark (√) most appropriate option	from the following.	
1. 2.	The abnormal increase in cell size of plant A. Hypoplasia C. Hyperplasia		
	1000 ppm =g/lit water. A. 0.1 g C. 1 g Partial phanerogamic plant parasite of mar A. Loranthus C. Cuscuta	B. Striga	
	Damping off disease is favoured byA. Low C. Dry	D. Orobanche soil moisture. B. Medium D. High	
5.	Chrysanthemum stunt is caused byA. Nematode C. Viriod	B. Bacteria D. Virus	
	Spraying of urea on fallen leaves is effective A. Apple scab C. Powdery mildew of apple	B. Fire blight of apple D. None of above	
(C. Alternaria alternata	B. Xanthomonas punicae D. Colletotrichum gloesporioides	
. (The source of primary infection of cumin was. Chlymadospore C. Microconidia	B. Oospore D. Macroconidia	
Ć	Each ascus normally contains A. Two C. Eight	B. Four D. Six	
	Which pathogen of grape destroyed wine in A. Phytophthora infestans C. Helminthosporium oryzae	dustry of France due to epidemic in 1882?	

11.	The fungus causing die back of rose pers stage.	sists	in dead twigs and withers branches
	A. Pycnidial		Cleostoethecial Pseudothecial
12.			Endophytic Ectoendophytic
13.	11. 0011	Β.	untry in India. Brazil Sri Lanka
14.	A. Tomato - White rust	В.	e is correctly matched? Coconut- Stem bleeding Cucumber - Club root
15.	A. ROOLIGE		Plant destroyer Potato rot
16.	A. Guavarust	B. D.	Coffee rust Both A & B
17.	The causal organism of Alternaria blight of m A. Alternaria taurica C. Alternaria macrospora	В.	old is Alternaria tagetica Alternaria porri
18.	The resistant variety against yellow vein most A. Pusa Jwala C. Parbhani Kranti	В.	f bhendi is Arka Jyoti All of these
19.	A. Primary infection C. Both A & B	B. D.	None of these
20.	Which of the following variety of banana is s A. Poovan C. Gros Michel	D.	ptible against Panama wilt? Basrai Moongil
21.	A. Elsinoe ampelina C. Oidium tuckeri	D.	Mycosphaerella ampelina
22.	A. Dry rot C. Powdery mildew	D.	Blight
23.	A. Fusaric acid C. Protocatacheuic acid	B. D.	Oxalic acid
24.	 Fire blight of apple caused by Erwinia amyle Robert Koch Julius Kuhn 	В.	a was first reported in 1878 by T. J. Burill E.F. Smith

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	25	5. Stem gall of coriander is caused by A. Aspergillus niger C. Cercosporidum personatum	P. Protomoso
		C. Cercosporidum personatum	D. Rhizoctonia solani
	26	of the trans, a bio-agent is use	ed for the management of
		A. rungi	B. Bacteria
			D. Algae
	27.	para origine or orinjar is	disease.
		A. Soil borne	B. Internally seed borne
	20	and the second state	
	28.	A. IAA is recommended for the i	management of mango malformation.
		C. NAA	B. GA
	20		D. IBA
	29.	 Conidia of Colletotrichum capsici are pro 	
		A. Acervulus C. Pycnidia	B. Perithecia
١	zio.	50 - 19000	D. Cleistothecia
	30.	to the tile to	ypical symptoms of disease of citrus.
		A. Citrus Greening C. Citrus Canker	B. Citrus Gummosis
	2.1	om an omitter	D. Citrus Tristeza
	31.	 Brown ring observed in the potato tuber is A. Common scab 	due to disease.
		C. Black scurf	B. Late blight
	32.		D. Bacterial wilt
	J2.	A. Late blight of potato	on for 30 min is effective to manage
		C. Early blight of potato	B. Common scab of potato D. None of them
	33.		TOTAL
		 Downy mildew fungi can be managed by a A. Sulphur 	
		C. Oxathins	B. Imazalil D. Metalaxyl MZ
	34.	Little leaf of brinjal can be managed by spi	
		A. Aureofungin	B. Streptocycline
		C. Tetracycline	D. Streptomycin
	35.	Intercellular mycelium means	- Suspicing cin
		A. Presence of mycelium between the	B. Presence of mycelium on epidermis
		cell	,
		 Presence of mycelium within the cell 	D. None of these
	36.	Which stage of Meloidogyne incognita cau	se infection to solanaceous host
		1. I saveinie (5)	B. II nd Juvenile (J ₂)
		C. III rd Juvenile (J ₃)	D. IV th Juvenile (J ₄)
	37.	potato discuse, forecasting mode	d "BLITECAST" is used?
		A. Late Blight	B. Bacterial Wilt
	20	C. Early Blight	D. Wart
	38.	Resistant variety for cumin wilt is	·
		A. GC-1 C. GC-2	B. GC-4
		C. UC-2	D. GC-5

39.			ot be u	sed for the management of powdery mildew
	A. Sulphur C. Tridemo		B. D.	Wettable sulphur Dinocap
40.	The easiest,	cheapest, eco-friendly and ef	fective	e method of plant disease management are
	A. Foliar sp C. Cultural	oray and seed treatment practices and soil drenching	В. D.	Seed and soil treatment Use of resistant varieties and seed treatment
41.	Bunchy top of A. Persiste C. Non per		B.	Semi persistent All of these
42.	"Shepherd's c A. Scab C. Fire Bli	rook" symptoms appeared in g	В.	Powdery Mildew Black Rot
43.	A. Phytopi C. Leveilli		B. D.	Sphaerotheca pannosa Diplodia rosarum
44.	soil pH (alka) A. Early b C. Commo	ine). light	B.	soil temperature, low soil moisture and high Late blight Brown rot
45.	Rhizoctonia s A. Sclerot C. Oospoo		ya pro B. D.	Zoospore
46.	A. Zoospo C. Basidio	ospore	В. D.	Ascospore Ascospore
47.	A. Pre em	s killed before the emergence ergence damping off & & B	В.	Post emergence damping off None of these
48.	A. After	of potato is occured in the field uberization tuberization	B. D.	
49.	A. 1943 C. 1882		D	
50.	A. Oospo C. Zoosp		В	through Conidia Sclerotia
51.	A. Cerco	f pomegranate is caused by espora punicae espora tageticola	B	. Cercospora musicola . Cercospora arachidicola
52	A. Aphi	za is transmitted byhopper	B	Both A & B

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53.	, and an another to Bernetuity tur		
	C. Warm and humid weather		Hot and dry weather None of the above
54.			Trone of the above
۵٦.	Bud rot of coconut is caused byA. Phytophthora nicotiana		Phytophthora palmivora
	C. Phytophthora citrophthora	D.	Phytophthora infestans
55.			
	A. 1 µm	B	(Low Linear Density Polyethylene) is used. 20-25 μm
	C. 100µm		200-250 μm
56.	Propiconazole is traded as		
	A. Score	В.	Tilt
	C. Bavistin	D.	
57.	Which of the following mango disease ca	uses he	avy loss at nost harvest stage?
	A. Anthracnose		Powdery mildew
	C. Malformation		Die back
58.	Stem canker of guava is caused by		
	A. Colletotricum psidii	B.	Puccinia psidii
	C. Fusarium oxysporum		Physalospora psidii
59.	Tomato leaf curl virus belongs to		group.
	A. Potyvirus	B.	
	C. Babuvirus	D.	Potexvirus
60.	'Target board effect' symptoms in tomato	is appe	ear due to
	A. Alternaria	B.	Colletotrichum
	C. Phytophthora	D.	Helminthosporium
61.	Botrytis allii causing garlic neck rot disea		
	A. Chlymadospore	В.	Zoospore
	C. Conidia	D.	Sclerotia
62.	Moko wilt of banana is characterized by		
	 Exudation of ooze 	B.	Early ripening of fruits
	C. Both A & B	D.	None of these
63.	The causal organism of black rot of coffee	e is	
	A. Pellicularia koleroga	B.	Cephaleuros mycoidea
	C. Phytophthora palmivora	D.	Hemileia vastatrix
64.	Powdery mildew of cucurbits is caused by	r	
*	A. Erysiphe cichoracearum	B.	Sphaerotheca fuliginea
	C. Podosphera leucotricha	D.	Both A & B
65.	Cucumber mosaic virus is infecting		:
	A. Banana	B.	Clover
	C. Cucumber	D.	All of these
66.	Which of the following disease is seed bor	ne?	
	A. Bacterial blight of clusterbean	В.	Downy mildew of cucurbits
	 Powdery mildew of cumin 	D	Papaya ring spot virus

67.		disease of guava forms cracks a	ind les	sions on bark.
	A.	Wilt	В.	Root rot
	C.	Red rust	D.	Stem canker
68.		pest helps in transmission of pu	rple b	lotch of onion.
	A.	Aphid		
	C.	Thrips	D.	White fly
69.	Rhine	oceros beetle enhances the incidence of		
	A.	Bud rot	В.	
	C.	Wilt		None of these
70.	For n	nanagement of nematode, carbofuran 30	G is to	be applied in the soil at per ha.
		13 kg	B.	33 kg
	C.	23 kg	D.	43 kg
71.	Bligh	nt of fennel is caused by		
		Rhizoctonia solani	B.	Cercospora punicae
	C.		D.	Alternaria tenuis
72.	1000	ch of the following is a resistant variety	of be	r against Alternaria leaf spot disease?
		Gola gurgaon	B.	ZG-3
	C.	Popular gola	D.	All of these
72		iphe polygoni causing powdery mildew	in	crop.
73.		Garlic	B.	Coriander
	A. C.	Cluster bean	1920	Grapes
	C.	Cluster beam		l area on bean pods are due to disease.
74.		ally brown and sunken spots with grey	R	Powdery mildew
	A.	Downy mildew Yellow mosaic virus		Anthracnose
	C.	1 CHOW MOSAIC VITAS		
75.		aya leaf curl virus is transmitted by	В.	White fly
	A.	Leaf hopper		Jassids
	C.	Aphids		
76.		pathogen of apple scab disease overwi	nters 1	Cleistothecia
	A.	Pseudothecia		
	C.	Perithecia	D.	Apothecia
77.	The	term necrosis means	ъ	Doub of call
25	A.	Blighting	B.	
	C.	Atrophy	D.	Curling
78.	Tot	al destruction of citrus orchards was do	ne in	Florida state of USA for eradication of
	A.	Citrus gummosis	B	. Citrus tristeza
	C.	Citrus canker		. Citrus greening
79.	Ro	ot feeding with fungicides is typical wa	y to n	nanage diseases incrop.
	A.	Coconut	В	. Potato
	C.	Cumin	D	. Tomato
80.	WI	hich of the following rust is caused by a	algae?	
50.	Α.	£	В	. Cucurbit rust
	C.	- Daniel Control of the Control of t	D	. Tea rust
		4800044-7850-7800-2 USAPPO		

AGRICULTURAL UNIVERSITIES OF GUJARAT

1. Anand Agricultural University, Anand 2. Navsari Agricultural University. Navsari 3. Junagadh Agricultural University, Junagadh 4. S. D. Agricultural University, S. K. Nagar Sixth Semester (Reg.) B.Sc. (Hons.) Agri. End Examination-June/July-2016 PART -B (Subjective) Course No.:- Pl. Path. 6.5 Course title: Diseases of Horticultural Crops and their Management (2+1) Time: 10:15 to 12:00 hrs Date: 21.06.2016 Marks: 40.00 Day: Tuesday Note: 1. Figures to the right side indicate marks. Support your answers with suitable diagrams wherever necessary. Q.1 Mention causal organism and describe characteristic symptoms of the following diseases (Any Five). 10.0 1. Mango malformation 2. Brown rot of potato 3 Citrus gummosis 4. Root knot of brinjal 5. Purple blotch of onion 6. Fire blight of apple 7. Papaya ring spot 0.2 Write causal organism, favourable conditions and disease cycle of the following diseases (Any Five). 10.0 1. Sigatoka leaf spot of banana 2. Phomopsis blight of brinjal 3. Foot rot of papaya 4. Powdery mildew of mango Blight of cumin 5. Bacterial blight of pomegranate 6. 7. Bunchy top of banana Write suitable management practices of the following diseases (Any Five). 10.0 0.3 Die back of rose 1. Little leaf of brinjal 2 Wilt of guava 3. Damping off of tomato 4. Yellow vein mosaic of okra Common scab of potato 6. Citrus canker 10.0 Differentiate the following diseases (Any Five). 0.4 Moko wilt of banana Panama wilt and 1. Powdery mildew of grapevine Downy mildew and Late blight of tomato 3. Early blight and Giant mistletoe Dodder and 4. Bud rot and Stem bleeding of coconut 5. Ramularia blight of fennel and Alternaria blight 6. Stem gall of coriander Wilt and 7.

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2. Jun	agadh Agricultural University, Junagadh	h 4. S. D. Agricultural University, Sardarkrushinagar	
:		Agri. End Examination- Dec., 2015 /Jan., 2016	
	PART	- A (Objective)	
Course	No.:Pl. Path. 6.5 Title of Course: Dis	iseases of Horticultural Crops and Their Management (2-	-1)
Date :	31.12.2015	Time:14:30 to 15: 15 hrs	
Day:	Thursday	Marks: 40	
		Marks obtained:	
* Tick	mark (√) most appropriate option fro	com the following	
(1)	The abnormal increase in the size of	plant organ is known as:	
	(a) Hypoplasia	(b) Hypertrophy	
0020	(c) Hyperplasia	(d) Atrophy	
(2)	Yellow vein mosaic of okra is transm	8	
	(a) Aphid	(b) Thrips	
(2)	(c) Mites	(d) White fly	
(3)		s discovered accidentally by Millardet?	
	(a) Vitavax	(b) Captan	
(4)	(c) Cerasan	(d) Bordeaux mixture	
(4)		red for root knot nematode.	
	(a) Sandy soil	(b) Clay soil	
(5)	(c) Heavy black	(d) Calcareous soil	
(5)	Damping off disease is favoured by. (a) Low soil moisture	(b) Medium soil moisture	
	(c) Dry soil	(d) High soil moisture	
(6)	Late blight of potato is associated with		
(0)	(a) Bengal famine	(b) France famine	
	(c) Irish famine	(d) None of them	
(7)	The common name of Rogor is:	(a) From of them	
(.)	(a) Endosulfan	(b) Chlorpyriphos	
	(c) Quinalphos	(d) Dimethoate	
	. ,	(-,	

P.T.O.

(8)	Which of the following insect helps in transmis	ssion of citrus canker disease?
	(a) Red mite	(b) Leaf hopper
	(c) Leaf minor	(d) Thrips
(9)	200ppm =gm / L. water.	• • • Indicated • Oh
	(a) 0.2 gm	(b) 2 gm
	(c) 0.02 gm	(d) 20 gm
(10)	Coffee rust was first reported from:	(-) 8
81 .2	(a) Java	(b) Fiji
	(c) Ceylon	(d) Sumatra
(11)	Paecilomyces lilacinus, a bio-agent is used for	the control of:
0 8	(a) Fungi	(b) Bacteria
	(c) Algae	(d) Nematodes
(12)	Secondary spread of citrus tristeza disease tak	
	(a) Myzus persicae	(b) Aphis gossypi
	(c) Toxoptera aurantii	(d) Pentalonia nigronervosa
(13)	Bird's eye spot disease is caused due to	
	(a) Penicillum italicum	(b) Colletotrichum capsici
	(c) Aspergillus niger	(d) Alternaria solani
(14)	Fire blight of apple was first reported by	
` ,	(a) T.J.Burrill	(b) Anton de Beary
	(c) E.J.Butler	(d) G.N.Agrios
(15)	Rust of coffee is caused due to	(-)
. ,	(a) Helmintosporium maydis	(b) Helminthosporium carborum
	(c) Hemileia vastatrix	(d) Helminthosporium turcicum
(16)	Protomyces macrosporus can perpetuate as:	(-)
200 10	(a) Oospore	(b) Chlamydospore
	(c) Sclerotia	(d) Acervuli
(17)	Each ascus normally contains number	of ascospores.
2501 23	(a) Four	(b) Six
	(c) Eight	(d) Two
(18)	Emisan is a :	
	(a) Copper fungicide	(b) Organomercurial
	(c) Sulphur fungicide	(d) Antibiotics
(19)	The term necrosis indicate:	
	(a) Death of cell	(b) Curling
	(c) Blighting	(d) Atrophy
(20)	Fungicides which are absorbed in to the system	m of the plant and move to the remote site of
	infection are known as:	•
	(a) Systematic	(b) Fungistatic
	(c) Systemic	(d) Non-systemic
(21)		grape wine industry in France due to its
	epidemics in 1875:	
	(a) Phytophthora infestans	(b) Helminthosporium oryzae
	(c) Plasmonara viticola	(d) Uncimula necator

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(22)	Which hormone is used in management of	mango malformation?
	(a) GA3	(b) IBA
	(c) NAA	(d) 2-4-D
(23)	Which of the following fungicide is known	
	(a) Vitavax	(b) Captan
	(c) Cerasan	(d) B.M.
(24)	disease of potato is favoured by h	igh soil temperature, low soil moisture and high
	soil PH (alkaline).	•
	(a) Early blight	(b) Brown rot
	(c) Late blight	(d) None of above
(25)	Garlic mosaic disease is transmitted by	vector.
	(a) Bemisia tabaci	(b) Aphis medicaginus
	(c) Myzus persicae	(d) Aphis cracivora
(26)	Which of the following type of plastic film	is used for soil solarization in nursery beds for
, ,	management of damping off of disease?	
	(a) 100 gauge LLDPE	(b) 200 gauge LLDPE
	(c) 150 gauge LLDPE	(d) 25 gauge LLDPE
(27)	Ramularia blight of fennel is caused by	•
. ,	(a) Ramularia foeniculi	(b) Ramularia aerola
	(c) Ramularia spp.	(d) Ramularia ramulera
(28)	Downy mildew disease can be effectively m	
()	(a) Metalaxyl MZ	(b) Thiophanate methyl
	(c) Hexaconazole	(d) Carbendazim
(29)	Mango malformation is common in:	(2)
(/	(a) North-East India	(b) North-West India
	(c) South-East India	(d) South-West India
(30)	Karathane is a :	
(50)	(a) Fungicide	(b)Insecticide
	(c) Nematicide	(d) Bactericide
(31)	Fusarium wilt of banana is also known as:	(4) 2
(5.7)	(a) Panama disease	(b) Moko disease
	(c) Bunchy top	(d) Sigatoka disease
(22)		(4) 8
(32)	The term 'Phytophthora' means: (a) Plant destroyer	(b) Root rot
	(c) Phytonlike	(d) Potato rot
(22)		
(33)	The first recognized virus disease of plants	
	(a) Tobacco mosaic	(b) Cucumber mosaic
	(c) Yellow vein mosaic	(d) Beam common mosaic
(34)		the base of papaya stem resulting honeycomb
	appearance is due to:	
	(a) Pythium aphanidermatum	(b) Colletotrichum gloeosporoides
	(c) Ascochyta caricae	(d) Fusarium oxysporum
(35)	Panama wilt of banana is type o	f disease.
F8 - 18500	(a) Simple interest	(b) Compound interest
	(c) Polyatic	(d) Polygenic

		//4//
(36)	The mycelium of Erysiphe polygoni is:	
	(a) Ectophytic	(b) Endophytic
	(c) Paraphytic	(d) Ectoendophytic
(37)	Mottle leaf of citrus is caused due to de	eficiency of :
	(a) Zinc	(b) Iron
	(c) Boron	(d) Calcium
(38)	The disease caused by algae is known a	is:
	(a) Brown rust	(b) Yellow rust
	(c) Red rust	(d) Stem rust
(39)	The common name of Tilt is:	100.00
	(a) Difenconazole	(b) Propiconazole
	(c) Hexaconazole	(d) Penconazole
(40)	Root rot disease is favoured by soil mo	isture:
	(a) Low soil moisture	(b) High soil moisture
	(c) Optimum soil moisture	(d) Water stagnation in field
(41)	Most of the banana diseases spread in	new area through:
	(a) Soil	(b) Air
	(c) Suckers	(d) Fruits
(42)	State the name of disease caused due to	Alternaria porri in onion:
	(a) Rust	(b) Onion smudge
	(c) Damping off	(d) Purple blotch
(43)	The causal organism of powdery mild	ew of grapes is:
	(a) Podosphaera leucotricha	(b) Leveillula taurica
	(c) Plasmopara viticola	(d) Uncinula necator
(44)	The primary source of inoculums for I	Susarium wilt disease is:
	(a) Cleistothecia	(b) Chlamydospore
	(c) Perithecia	(d) Sclerotia
(45)	State the name of causal organism caus	sing Sigatoka disease in banana
	(a) Alternaria alternata	(b) Cercospora musae
	(c) Macrophomina phaseolina	(d) Colletotrichum sp.
(46)	Banana mosaic is transmitted through	15000 1
	(a) Red bug	(b) Jassids
	(c) Aphids	(d) Mites
(47)	State the name of sexual spores produc	ed by Phytophthora:
	(a) Clamydospore	(b) Oospore
	(c) Zygospore	(d) Zoospore
(48)	Blitox-50 contains:	
	(a) Sulphur	(b) Organo mercurials
	(c) Copper	(d) Manganese
(49)	Onion rust is	
	(a) Autocious	(b) Heterocious
	(c) Herbacious	(d) Monoecius
(50)	variety of cumin has tolerance	against wilt.
	(a) GC-2	(b) GC-1
	(c) GC-3	(d) GC-4
(51)	Secondary spread of citrus gummosis t	
	(a) Oospore	(b) Chlamydospore
	(c) Zoospore	(d) Sclerotia
•	MF 57 5000	

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(52)	The mycelium of Leveillula taurica is:	
()	(a) Ectophytic	(b) Endophytic
	(c) Paraphytic	(d) Ectoendophytic
(53)	Powdery mildew of ber is caused by:	(1)
(00)	(a) Erysiphe polygoni	(b) Oidium mangiferai
	(c) Leveillula taurica	(d) Oidium erysiphoides
(54)	State the name of guava disease which form	
(- ')	(a) Red rust	(b) Wilt
	(c) Stem canker	(d) Root rot
(55)		esponsible for stem bleeding disease in coconut?
()	(a) Botrydiplodia theobromae	(b) Ceratocystis paradoxa
	(c) Rhizoctonia solani	(d) Phytophthora katsurae
(56)	Usually brown and sunken spots with grey of	
()	(a) Powdery mildew	(b) Downy mildew
	(c) Anthracnose	(d) Yellow mosaic virus
(57)	Drying of twigs from tip to down wards in r	ose is caused due to :
	(a) Phytophthora palmivora	(b) Sphaerotheca pannosa
	(c) Leveillula taurica	(d) Diplodia rosarum
(58)	Olive green to grey velvety spots on apple yo	oung leaves, flower buds and sepals are due to:
	(a) Powdery mildew	(b) Fire blight
	(c) Apple scab	(d) Bacterial blight
(59)	Stem gall of coriander is caused by:	
928 (5	(a) Colletotrichum circinans	(b) Cercospora punicae
	(c) Protomyces macrosporus	(d) Erysiphe polygoni
(60)		r surface of the leaf is a characteristic of
	disease.	
	(a) Powdery mildew	(b) White rust
	(c) Downy mildew	(d) Blister blight
(61)	Which of the following bio-control agent is	effective for the management of guava wilt?
1850 1500	(a) Metarrhizium anisoplae	(b) Trichothecium spp.
	(c) Trichoderma viride	(d) Beauveria bassiana
(62)	Common scab of potato is caused by	
	(a) Streptomyces griseus	(b) Streptomyces flaveolus
	(c) Streptomyces aureofaciens	(d) Streptomyces scabies
(63)	Powdery mildew of cumin is favoured by	
	(a) Cool and dry weather	(b) Hot and dry weather
	(c) Hot weather	(d) None of the above
(64)	Die-back of rose is caused due to	V22 33 10-3127
()	(a) Diplodia rosarum	(b) Botryodiplodia theobromae
	(c) Diplodia natalensis	(d) Diplodia ricinicola
(65)	Blister blight of tea was first reported from	state of India.
()	(a) Assam	(b) Tamil Nadu
	(c) Karnataka	(d) Sikkim
		re of

		77677
(66)	Chrysanthemum stunt is caused by	3.120
	(a) MLO's	(b) Virus
1707-202-2019	(c) Viroid	(d) Phytoplasma
(67)	Fire blight of apple pathogen is transmitted	- Control Control - Control Co
	(a) Insects	(b) Nematodes
	(c) Fungi	(d) Weeds
(68)	Cascuta reflexa absorbs food and water th	
	(a) Partial root parasite	(b) Complete stem parasite
	(c) Complete root parasite	(d) Partial stem parasite
(69)		ization is to be carried out for the management of
	damping off of vegetables?	
	(a) April-May	(b) September-October
	(c) January-February	(d) July-August
(70)	Leaf curl of chilli is caused due to	2.22
	(a) Nicotiana virus-10	(b) Nicotiana virus-1
	(c) Tomato spotted wilt virus	(d) Chilli leaf curl virus
(71)	Partial phanerogamic stem parasite of ma	
	(a) Orobanche sp.	(b) Cuscuta sp.
	(c) Striga sp.	(d) Dendrophthoe sp.
(72)	State the name of fruiting bodies produce	
	(a) Pycnidia	(b) Sclerotia
	(c) Acervuli	(d) Cleistothecia
(73)	Fruit becomes mummified and abunda	nt pycnidia are produced on fruit surface is a
	characteristic symptoms of	
	(a) Fruit rot of chilli	(b) Apple scab
	(c) Fruit rot of brinjal	(d) Potato scab
(74)	Trichoderma viride is a biofungi used to co	
	(a) Bacterial disease	(b) Viral disease
	(c) Fungal disease	(d) Insect control
(75)	antibiotic is recommended for	
	(a) Agrimycin	(b) Tetracyclin
	(c) Streptocycline	(d) Aureofungin
(76)	Bacterial blight of cluster bean was first	reported byfrom Anand.
	(a) A. J. Patel	(b) M. K. Patel
	(c) M. V. Desai	(d) M. D. Patel
(77)	Cercospora leaf spot of marigold is cause	d by
	(a) Cercospora tageticola	(b) Metarrhizium anisoplae
	(c) Cercospora arachidicola	(d) Verticillium lecanii
(78)	Germinating seeds killed before the em	ergence from the soil surface is a characteristic
9 35	symptoms of	
	(a) Root rot	(b) Damping off
	(c) Wilt	(d) Collar rot
(79)	Crop rotation is useful for control of dise	ase caused by:
	(a) Soil invaders	(b) Soil inhabitants
	(c) Seed borne virus	(d) Internally seed borne
(80)	Cumin blight was first reported by:	The state of the s
(3-7	(a) B. N. Uppal	(b) M.V. Desai
	(c) M. K. Patel	(d) M. J.Thirumulachar

AGRICULTURAL UNIVERSITIES OF GUJARAT

- 1. Anand Agricultural University, Anand
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- 4. S. D. Agricultural University, Sardarkrushinagar

Sixth Semester (Supple.) B.Sc. (Hons.) Agri. End Examination Dec., 2015 /Jan., 2016 PART - B (Subjective)

	31.12.2 Thurse			Time :15:15 to 17: 00 hrs Marks : 40	
		port your answer with suitable exa res to the right indicate marks.	mples ar	nd diagram wherever necessary.	
Q. 1.	State	the name of causal organism ving diseases (ANY FIVE).	and des	cribe the characteristic symptoms of the	(10.0)
	1.	Cumin blight	5.	Yellow vein disease of okra	
	2.	Citrus canker	6.	Sigatoka leaf spot of banana	
	3.	Purple blotch of onion	7.	Early blight of potato	
	4.	Little leaf of brinjal			
Q. 2.	Write	e suitable management practices	for the	following diseases (ANY FIVE).	(10.0)
	1.	Powdery mildew of ber	5.	Damping off of vegetables	
	2.	Gummosis of citrus		Late blight of potato	
	3.	Smudge of onion	7.	Leaf curl of tomato	
	4.	Wilt of cumin			
Q. 3.			, favoui	rable conditions and disease cycle of the	(10.0
		wing diseases (ANY FIVE).	5.	Coffee rust	
	1.	Foot rot of papaya Downy mildew of cucurbits		Ripe fruit rot of chilli	
	3.		7.	Powdery mildew of cumin	
	4.	Bacterial blight of pomegranate		Toward Innaem of Califfer	
	Diffe	erentiate between the following o	liseases	(ANY FIVE).	(10.0
4	1.	Moko	and	Panama wilt of banana	•
4.		Vegetative malformation			
 4.	2.		and	Papaya leaf curl	
 4.	2. 3.	Papaya mosaic		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
 4.	2. 3. 4.	Papaya mosaic Bud rot	and	Stem bleeding of coconut	
4.	3.			Stem bleeding of coconut Ramularia blight of fennel	
4.	3. 4.	Bud rot	and	그림 그렇지 않아 있다 가지 하지 않고 있는데 얼마나 그 사람이 있는데 그렇게 되었다.	

Uni. Seat No		(Centre:		
Regi. No		5	Sign. of Supervisor:		
		AGRICULTURA	L UNIVERSIT	IES OF GUJARAT	
				Navsari Agricultural University, Navsari S.D. Agricultural University, S.K. Nagar	
	Sixth	Semester End Examination	n of B.Sc.(Hon	s.) Agri. Regular June/July-2015	
·	Na Di		RT – A (Object		
	No. <u>P1</u> 01/07/2		e: Diseases of H	forticultural Crops and Their Management (2 Time: 9.30 to 12.00 hrs	
Day: V	Wedne	sday		Marks: 40.00	
				Marks obtained	
Q.1		k mark (√) most approp			
1.		is diseases can be controll	T		
		Systemic fungicides		Nematicides	
		Bactericides	(d)		
2.	Pro	tomyces macrosporus can	perpetuates as:		
	(a)	Acervuli	(b)	Oospore	
	(c)	Chlamydospore	(d)	Sclerotia	
3.	Alte	rnaria blight of cumin wa	s first reported b	py:	
	(a)	M.K. Patel	(b)	A.N. Mukhopadhyay	
	(c)	B. N. Uppal	(d)	T.J. Thirumalachar	
4.	The	climatic condition is not f	avouring late bl	ight of potato is:	
	(a)	Low temperature	(b)	High humidity	
	(c)	Cloudy weather	(d)	Dry and hot weather	
5.	Littl	e leaf of brinjal is transmi	tted by:		
	(a)	Emrasca bigutula	(b)	Hishimonas phycitis	
	(c)	Myzus persicae	(d)	Bemisia tabaci	
6.	Pho	mopsis vexans survives in	plant debris as:		
	(a)	Acervulus	(b)	Cleistothecium	
	(c)	Pycnidium	(d)	Sporodochium	
7.	Pow	dery mildew of clusterbea	in is caused by:		
	(a)	Erysiphae polygoni	(b)	Sphaerotheca pannosa	
	(c)	Phyllactinia corylea	(d)	Leveillula taurica	
8.				ing powdery mildew of cucurbits is:	
	(a)	Dinocap	(b)	Sulphur dust	
.1	(c)	Tridemorph	(d)	Penconazole	
9.		scaled onion varieties are	1977 (1972 - 1977 1978 - 1974 1975 1977 1977 1977 1977 1977 1977 1977	_	
	(a)	Purple blotch	(b)	Downy mildew	
	(c)	Smudge	(d)	Smut	
				PTA	

10.	Con	mon scab of potato is caused by:			
	(a)	Streptomyces aureofasciens	(b)	Streptomyces griseus	
	(c)	Streptomyces scabies	(d)	Streptomyces flaveolus	
11.	Path	ogen associated with root-knot nem	atode	causing wilt complex is:	
	(a)	Alternaria spp.	(b)	Cercospora spp.	
	(c)	Fusarium spp.	(d)	Curvularia spp.	
12.	Ace	rvulus is produced by:			
	(a)	Sclerotinia spp.	(b)	Fusarium spp.	
	(c)	Pythium spp.	(d)	Colletotrichum spp.	
13.	Dov	vny mildew of onion is caused by:			
	(a)	Peronospora destructor	(b)	Plasmopara viticola	
	(c)	Pseudopernospora cubensis	(d)	Podosphaera fuliginea	
14.	Air	borne conidia is produced by:			
	(a)	Alternaria solani	(b)	Erysiphe polygoni	
	(c)	Cercospora capsici	(d)	Meloidogyne incognita	
15.	Cuc	umber mosaic virus is transmitted th	nrough	h:	
	(a)	Jassids	(b)	Leaf hopper	
	(c)	Whitefly	(d)	Aphids	
16.	Nec	k rot of onion and garlic is caused b	y:		
	(a)	Botrytis allii	(b)	Sclerotium cepivorum	
	(c)	Fusarium oxysporum f.sp. cepae	(d)	Burkholderia cepacia	
17.	The	mycelium ofpowdery mi	ldew	pathogen is endophytic.	
	(a)	Erysiphe polygoni	(b)	Uncinula necator	
	(c)	Leveillula taurica	(d)	Sphaerotheca pannosa	
18.	Yell	low vein mosaic of okra is caused by	y:		
	(a)	Geminivirus	(b)	Potyvirus	
	(c)	Potexvirus	(d)	Comovirus	
19.	Pote	ato leaf roll virus is transmitted by:	3.5		
	(a)	Bemisia tabaci	(b)	Myzus persicae	
	(c)	Aphis gossypii	(d)	Pentalonia nigronervosa	
20.	App	pearance of dark, sunken ulcer l	ike l	esion with pink center on frui	t is the
		racteristic feature of infection cause			
	(a)	Fusarium solani	(b)	Sclerotinia sclerotiorum	
	(c)	Colletotrichum capsici	(d)	Alternaria solani	
21.	Disc	covery of Bordeaux mixture is associate	ciated	with:	
	(a)	Downy mildew of ber	(b)	Downy mildew of cucurbits	
	(c)	Downy mildew of grapes	(d)	Downy mildew of onion	
22.	Cof	fee rust pathogen survives and spre	ads th	rough:	
	(a)	Pycnial stage	(b)	Aecial stage	
	(c)	Uredial stage	(d)	Telial stage	
23.		ster blight of tea is caused by:	10 D	NT -	
	(a)		(b)	Exobasidium vexans	
	(c)	Dianorthe verans	(4)	Alternaria solani	

			- 3	
24.	Bioco	ontrol agent commonly used for the	he man	agement of wilt and root rot diseases is:
		Metarrhizium spp.	(b)	Trichothecium spp.
	(c)	Trichoderma spp.	(d)	Trichogramma spp.
25.	Fusa	rium wilt pathogen survives in so	oil as:	
	(a)	Cleistothecia	(b)	Perithecia
	(c)	Chlamydospore	(d)	Sclerotia
26.	Flood	fallowing is an effective manage	ement p	practice of:
		Panama wilt of banana		Moko wilt of banana
	(c)	Foot rot of papaya	(d)	Bud rot of coconut
27.	Borde	eaux paste generally having coppe	er sulpl	nate in it:
		0.1%	(b)	1%
	(c)	5%	(d)	10%
28.	Vein	flecking in young leaves and st	em pitt	ting on the tree bark is the characteristic
		tom of:	•	
	(a)	Citrus tristeza	(b)	Citrus gummosis
	(c)	Citrus canker	(d)	Citrus greening
29.	Cross	protection can be applied to man	age:	
	(a)	Yellow vein mosaic of okra	(b)	Papaya ringspot
	(c)	Leaf curl of chilli	(d)	Cucurbit mosaic
30.	Spray	ing of urea on fallen leaves is an	effectiv	ve measure to manage:
		Citrus canker	(b)	Apple scab
	(c)	Powdery mildew of ber	(d)	Sigatoka leaf spot of banana
31.	Reddi	sh brown oozing from the cra	cks of	coconut tree trunk is the characteristic
		toms of:		
	(a)	Bud Rot	(b)	Stem bleeding
	(c)	Root wilt	(d)	Stem end rot
32.	Cuscu	ata reflexa absorbs food and water	r throu	gh haustoria from citrus is a:
	(a)	Complete stem parasite	(b)	Partial stem parasite
	(c)	Complete root parasite	(d)	Partial root parasite
33.	Citrus	s tristeza virus can be transmitted	throug	
	(a)	Toxoptera citricida	(b)	Myzus persicae
	10.00	Pentalonia nigronervosa	(d)	Aphis gossypii
34.		m mangiferae survives during of		
		Cleistothecia in malformed		Chlamydospore
		panicles	(-)	
	NO NO ***	Oospore	(d)	Sclerotia
35.	71. 51	ery mildew of ber is caused by:	(-)	
		Oidium mangiferae	(b)	Oidium piperis
	200	Oidium erysiphoides	(d)	Oidium caricae
36.		1701 (701	9.000	at the base of papaya stem resulting
		comb appearance is due to:	33403	at the base of papaya stem resulting
		Pythium aphanidermatum	(b)	Colletotrichum gloeosporoides
	0.000	Ascochyta caricae	(d)	Fusarium oxysporum
37.		ot of coconut is caused by:	(4)	- nost thin oxyspot um
		Phytophthora parasitica	(b)	Phytophthora palmivora
		Phytophthora citrophthora	(d)	Pythium aphanidermatum
	(-)	y opinio a em opinio a	(4)	. Januari apramaer matum

38.	First report of bacterial plant disease in	n the wo	rld is :
	(a) Brown rot of potato	(b)	Moko wilt of banana
	(c) Fire Blight of apple	(d)	Bacterial blight of pomegranate
39.	Leaf spot of sapota is caused by:		
	(a) Phaeophleospora indica	(b)	Helminthosporium indica
	(c) Phaeocercospora indica		Alternaria indica
40	Fungicide metalaxyl is recommended	0.00	
4 0.	(a) Early blight of tomato	(h)	Fruit rot of chilli
	(a) Early blight of tomato (c) Late blight of potato	(4)	Fruit rot of brinjal
41.	The causal organism of downy milder		
41.	(a) Praydomonas fluorescens	(b)	Uncinula necator
	(c) Phytophthora citrophthora	(d)	Pseudoperonospora cubensis
42.	Bacterial blight of clusterbean was fir	st report	ed by from Anand.
72.	(a) M.V. Desai	(b)	A.N. Mukhopadhyay
	(c) M.K. Patel	(d)	T.J. Thirumalachar
43.	Which of the following disease is tran		
75.	(a) Potato leaf roll	(b)	Cucurbits mosaic
	(c) Little leaf of brinjal	(d)	Chilli leaf curl
44.	Colletotrichum circinans is causing	(-/	disease in onion.
77.	(a) Purple blotch	(b)	Downy mildew
	(c) Neck & bulb rot	(2)	Smudge
45.	Germinating seeds killed before the e	mergeno	e from the soil surface is a characteristic
10.	symptom of disease	se.	6
	(a) Root rot	(b)	Collar rot
	(c) Wilt	(d)	Damping off
46.	Potato scab is caused by		
	(a) Fungi	(b)	Actinomycetes
	(c) Bacteria	(d)	Phytoplasma
47.	The primary source of inoculum of P	hythium	sp. is
	(a) Zygospore	(b)	Chlamydospore
	(c) Oospore	(d)	Sclerotia
48.	The causal organism of fennel blight	is:	
	(a) Alternaria tenuis	(b)	Alternaria alternata
	(c) Alternaria solani	(d)	Alternaria macrospora
49.	Diplodia rosarum causes	disea	se in rose.
	(a) Rust	(b)	Powdery mildew
	(c) Wilt	(d)	Die back
50.		rical cita	ation due to famine in Ireland during 1845.
	(a) Early blight	(b)	Common scab
	(c) Late blight	(d)	Black scurf
51.			- I - I
	(a) Puccinia helianthi	(b)	
	(c) Hemileia vastatrix	(d)	Cephaleuros parasiticus
52.	Fruit become mummified and abun	idant py	enidia are produced on fruit surface is a
	characteristic symptoms of:	- 4	Company and
	(a) Fruit rot of chilli	(b)	
120121	(c) Phomopsis fruit rot of brinjal	(d)	Brown rot
53.	그 그렇게 하는 그 없는 것이 없는 사람이 하는 사람이 하는 것이 되었다. 그렇게 하는 것이 없는 것이다.		
	(a) Rhizoctonia bataticola	(p)	
	(c) Alternaria alternata	(d)	Fusarium moniliformae

Univ	. Seat No	Re	gi. No
34.4	g g	5 -	
54.	The primary source of inoculums of Phy	ytopht	hora spp. is:
	(a) Zygospore	(b)	Oospore
	(c) Chlamydospore	(d)	Sclerotia
55.	The causal organism of powdery milder	v of g	rapes is:
	(a) Podosphaera leucotricha		Plasmopara viticola
	(c) Leveillula taurica	(d)	Uncinula necator
56.	Perfect stage of sigatoka leaf spot of bar	nana is	S:
	(a) Mycosphaerella musicola		Glomerella cingulata
	(c) Colletotrichum gloeosporioides	(d)	Gibbrella fujikuroi
57.	Which pathogen on pomegranate produ-	ces sp	ots as dark brown, irregular water soaked,
	slightly raised and oily appearance on fi		
	(a) Cercospora punicae	(b)	Oidium erysiphoides
	(c) Xanthomonas punicae	(d)	Colletotrichum gloeosporioides
58.	Which rust is caused by algae?		
	(a) Coffee rust	(b)	Garlic rust
	(c) Guava rust	(d)	Tea rust
59.	Metalaxyl is traded as:	(-)	
57.	(a) Topsin M	(b)	Ridomil
	(c) Bavistin	(d)	Dithane M-45
60.	Flowering parasite of mango is:	()	
00.	(a) Orobanche sp.	(b)	Cuscuta sp.
	(c) Striga sp.	(d)	Dendrophthoae sp.
61.	is a nematode bio-agent		Denar opinione op.
01.		(b)	Paecilomyces lilacinus
	(a) Pseudomonas fluorescens (c) Bacillus subtilis	(d)	Exobasidium vexans
(2			Exoodsidium vexans
62.	Papaya leaf curl is transmitted through:		Mites
	(a) White fly	(b)	
(2	(c) Thrips	(d)	Jassids
63.	Stem canker of guava is caused by:	/L\	Ramularia areola
	(a) Physelospora psidi	(b)	
	(c) Pseudoperenospora cubensis	(a)	Puccinia penisseii
64.			grey coloured velvety spots on sepals and
	young leaves, later turning to metallic b	100	
	(a) Fire blight	(b)	Scab
274240	(c) Powdery mildew	(d)	Rust
65.	Mottle leaf of citrus is due to deficiency	C	
	(a) Ca	(b)	Zn
	(c) Mn	(d)	Fe
66.	Which of the following disease is favor		
	(a) White rust	(b)	Grey mildew
	(c) Powdery mildew	(d)	Downy mildew
67.	Which chemical is recommended for the	ie mar	
	(a) IAA	(b)	GA
	(c) NAA	(d)	IBA
68.	Bud rot of coconut is caused by:		
	(a) Phytophthora nicotiana	(b)	Phytophthora palmivora
	(c) Phytophthora citrophthora	(d)	Phytophthora infestans
69.	Moko disease of banana is caused by:	300000	N 50
5.650	(a) Cercospora musae	(b)	Mycospherella musicola
	(c) Ralstonia solanacearum	(d)	Alternaria cubensis
70.	Bunchy top of banana is transmitted th	3.5	:
	(a) Aphis gossypii	(b)	
	(c) Myzus persicae		Aphis medicaginis

71.	Stem gall of coriander is caused by:		
	(a) Colletotrichum circinans	(b)	Cercospora punicae
	(c) Protomyces macrosporus	(d)	Erysiphe polygoni
72.	Downy mildew disease can be effect	ively ma	naged by spraying:
	(a) Metalaxyl MZ	(b)	Chlorothalonil
	(c) Mancozeb	(d)	Thiophanate methyl
73.	Damping off disease is favoured by .		soil moisture.
	(a) Low	(b)	Optimum
	(c) High	(d)	Medium
74.	Alternaria porri is causing disease in	n onion:	
	(a) Rust	(b)	Damping off
	(c) Onion smudge	(d)	Purple blotch
75.	White spots appear on upper surface	e of the	leaf and turn ashy gray in later stage is a
	characteristic symptoms of:		
	(a) Powdery mildew	(b)	White rust
	(c) Downy mildew	(d)	Blister blight
76.	Root-knot disease of brinjal is caused	d by:	
	(a) Paratilenchus macrophallus	(b)	Meloidogyne incognita
	(c) Heterodera avenae	(d)	Anguina tritici
77.	For nematode management carbofura	an 3G is	to be applied in the soil at rate per ha.
	(a) 13 kg	(b)	33 kg
	(c) 23 kg	(d)	43 kg
78.	Chrysanthemum stunt is caused by:		
	(a) Virus	(b)	Viroid
	(c) Spiroplasma	(d)	Bacteria
79.	A knob like structure of fungi which		the nutrients from the host is known as:
	(a) Appresoria	(b)	Rhizomorph
	(c) Haustoria	(d)	Sclerotia
80.	Leaf spot of marigold is caused by:	50 2020	
	(a) Cercospora timorensis	(b)	Cercospora trichosanthes
	(c) Cercospora viticola	(d)	Cercospora tageticola

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AGRICULTURAL UNIVERSITIES OF GUJARAT

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Sixth Semester End Examination of B.Sc.(Hons.) Agri. Regular June/July -2015 PART -B (Subjective) Course No. Pl. Path. 6.5 Title of Course: Diseases of Horticultural Crops and Their Management (2+1) Time: 9.30 to 12.00 hrs Date: 01/07/2015 Marks: 40.00 Day: Wednesday Note: 1. Figures to the right side indicate marks. Support your answers with suitable examples/diagram wherever necessary. Mention causal organism and describe characteristic symptoms of the 10.0 Q. 1 following diseases (Any Five). Stem bleeding of coconut Bacterial blight of clusterbean 2. Yellow vein mosaic of okra 3. Powdery mildew of grapes 4. 5. Little leaf of brinjal Mango malformation 6. Bunchy top of banana. Write causal organism, favourable weather conditions and disease cycle of 10.0 0.2 the following diseases (Any Five). Citrus canker 1. 2. Wilt of cumin Foot rot of papaya 3. Powdery mildew of ber 4. 5. Red rust of tea 6. Anthracnose of mango Apple scab. 7. 10.0 Write suitable management practices of the following diseases (Any Five). Q. 3 Powdery mildew of fennel 1. Cumin blight 2. Die back of rose 3. Leaf curl of tomato 4. 5. Root-knot of brinjal Mango anthracnose 6. Alternaria leaf blight of marigold. 7. 10.0 Differentiate the following diseases (Any Five). Q. 4 Late blight of potato Early blight and 1. Papaya leaf curl 2. Papaya mosaic and Downy mildew of cucurbits Powdery mildew 3. and Citrus canker Citrus gummosis 4. and Onion smudge 5. Onion purple blotch and Cercospora leaf spot of chilli Alternaria leaf spot 6. and Post-emergence damping off of vegetables. and Pre-emergence 7.

AGRICULTURAL UNIVERSITIES OF GUJARAT ANAND/ NAVSARI/ JUNAGADH/ SARDARKRUSHINAGAR

Date: 0	2.07.2014	0.00	ases of Hornicult	LEAR CLUPS AND	Ination-2014 Their Management (2+1 Time: 9.30 to 12	.00 b _b
Day : \	Wednesday				Marks: 80.00	,,
Note: 1	. Figures to the righ Support your answ	t side i	PART –II (Subjection of the suitable examples		Marks: 40.00	
Q.1 M	ention causal orga	nism aı			ms of the following	10.0
pı	ant diseases (Any f	ive).		•		
√1.	Mango malforma					
-2.	Ripe fruit rot /an	thracno	se of chilli			
-3.	Little leaf of brir					
4.	Bud rot of cocon					
5.	Fire blight of app					
~ 6.	Leaf curl of toma			,		
~ 7.	Damping off of					
Q.2 W ₁	rite causal organis	m, favo	urable conditions	and disease cy	cle of the following	10.0
	seases (Any five).		•			
1.	Foot/stem rot of					
2.	Bacterial blight of	of cluste				
3.	Blight of cumin		go ~ ? ^ ? ?	L.~~		7.
4.	Citrus gummosis					
√ 5.	Powdery mildew		go		•	
6.	Purple blotch of					
7.	Wilt of coriander		_			
Q.3 Wi	rite the causal orga	nism a	nd suggest suitab	le control meas	ures of the following	10.0
	eases (Any five).					
1.	Late blight of ton	nato			* a.	
, ~ 2.	Citrus canker	_				
· · 3.	Yellow vein mos			,		
4.	Powdery mildew	of clus	erbean			
_5.	Cumin wilt			4		
√ 6.	Root-knot of ve	getable	,	ue.		
√7 .	Apple scab.		,			
Q.4 Dif	ferentiate the follo	wing d	seases (Any five)	•:	1.	10.0
M.	Papaya leaf curl	and	Papaya ring spe		,	10.0
L2.	Panama	and	Moko disease o		•	•
√3 .	Downy mildew	and	Powdery milde			
4.	Red rust of tea	and	Rust of coffee	or Brahe into		
×5.	Cascuta sp.	and	Dendrophthoae	S'n		
6.	Alternaria blight	and	Ramularia bligh	op.		
7.	Fruit rot of chilli	and	Fruit me act	r of tennel		
	I luit lot of omit	*****	Fruit rot of bring	A		X.
20.			0-0-0-	-0-0		

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11. Fain. 6.5: Diseases of Horticultural	Hons.) Agri. End Examination-2012 1 Crops and Their Management (2+1) Time: 10.00 to 10.45 hrs. Marks: 40.00 Uni. Seat No			
Note: 1. All the questions carry equal marks. 2. 3. Choose the correct option (A,B,C or D) from (A,B,C or	Rewriting/overwriting should be avoided. the following and answer in the bracket			
Part-I (0	Objective)			
1. White powdery mass of fungus ap				
characteristic symptoms of A Downey mildew Powdery mildew Which fungicide is recommended for of ber?	B Grey mildew D White rust or the control of powdery mildew ()			
Wettable sulphur 80 WP	B Tetracycline			
4. The causal organism of gummosis of A Phytophilhora infestans A C Phytophthora citrophthora	of citrus is () B Phytophthora colocasiae D Phytophthora capsici			
5 Cuscuta reflaxo absorbs food and v citrus is a A Partial root parasite C Compete root parasite	B Compete stem parasite D Partial stem parasite			
6 The prycelium of Erysiphe polygon A Ectophytic C Endophytic 7 State the name of chemical	B Paraphytic D None of above			
management of mango malformat A IAA C NAA	" " " " " " " " " " " " " " " " " " "			

P.T.O

moro disense	:2:	ू इ राजे	C)
dako disease of banana is caus	ed by			
- Bacteria		Virus		
Fungi		Nematode	1)
he causal organism of powder	y mildew o	f cumin is	V	
Erysiphe polygoni		Erysiphe graminis		
C Erysiphe cichoracearum	D	Oidium mangiferae	()
State the name of disease which	is favoure	d by dry and cool weather:	(,
A White rust	&B	Powdery mildew		
C Grey mildew	D	Downey mildew	1:00	Α.
Vascular bundles of infected	roots beco	ome brown in colour is a	(,
characteristic symptoms of	diseas	se.		
A Root-knot	В	Root rot		
Fungal wilt	D	Damping off	(`
State the name of resistant var	iety of cumi	in against wilt disease?	(,
A Gujarat cumin-1	B	Gujarat cumin-2		
Gujarat cumin-4	D	Gujarat cumin-5		
The causal organism of fennel	blight is	••••	()
Alternaria tenuis	В	Alternaria alternata		
C Alternaria solani	D	Alternaria macrospora		
Little leaf of brinjal is transmi	tted by		()
A / Aphids	В	Thrips ·		
1 ch Losside	D	White fly	_	
Germinating seeds killed before	re the emer	rgence from the soil surface	()
is a characteristic symptoms o	fdi	sease.		
A Root rot	GB-	Damping off		
di Wille	D	Collar rot		
Fungicide metalaxyl is recom	mended for	the management of	()
A Early blight of tomato	В	riuit fot of chilli		
o I see kilight of notato	D	Fruit rot of brinjal	,	
State the name of fungus which	ch produces	acervuli as a fruiting body?	.()
A Alternaria porri	В	Peronospora destructor		
1 of Gallerotricum cansici	D	Fusarium solani	,	
a notches on lini	per surface	of leaves and dirty white	()
growth produce on a corres	ponding to	wer surface is feature of		
disease.	WH?	Downey mildew		
A Grey mildew	n n	White blister		
C Powdery mildew	ste recembli		,	`
9 Round, brownish, sunken spo	no rescinon easib	se	()
characteristic symptoms of	uisea B	Blister blight of tea		٠
A Anthracnose of chilli		Alternaria blight of fennel		
Anthracnose of grapevine	, 0	on Pur of Telliel		
\sim				

20	The causal or	ganiem er i	:3:		,	,
	A Pseudom	ganism of downy mi	ildew o	Cucurbit is	()
		onds Hillier	(B)	Pseudoperonospora		
	$C = Ph_{total}$	t		cubensis		
21	The cause	hora curophthora	D	Uncinula necator		
	A Your	ganism of bacterial	blight o	of pomegranate is	()
				Xanthomanas campestris		
22	The au	anas malvacearum	D	Xanthomanas citri		
~~	and primary	source of foot rot of	papaya	a disease is	()
	120003P01	· C	В	Chlamydospore		Í
22	C Basidios	oore	4	Dognara		
23	Puccinia psidi	i causes red rust di	sease in	1	()
	Dallalla		В	Coconut	•	,
•	C Apple		D/	Guava		
24	onic green (o grey lesions with A	velvet	surface is a characteristic	(`
	7.	duce III	THE CLY	surface is a characteristic	()
	Apple sca	ab	В	Bud rot of coconut		
	C Wilt of gu	ava	n	Detete1		
25	Mottle leaf of	citrus is due to defic	iency «	1 Otato Scati		
	A Ca	ar to defre	B	zn	()
	C Mn	~	D	Fe		
₹ 26	Bud rot of coo	conut is caused by	D	re		
-	A Phytopht	hora nicotiana	 В	Dh. a Lat	()
	C Phytophti	hora citrophthora		Phytophthora infestance		
27	The rust of co	ffee is caused by	W.	Phytophthora palmivora		
	Hemilleid	vastatrix	Ъ	14.1	()
	C Puccinia	porri	В	Melampsora lini	7	,
28	Bacterial blig	ht of clusterbean was	D	Cephaleuros mycoidea		
	A A. N. Mu	khopadhay	irst	eported by from Anand	(`
	C M.V. Des	ล่	~	T. IL. I alel	(,
29	Which of the	following disease is to	D	T. J. Thirumallachar		
	A Citrus tris	following disease is to	ransmi	ited by white fly ?	,	
	C Bunchy to	on of home		Potato leaf roll	. ()
30	Which chemic	al is recommended s	ND	Leaf curl of papaya		
	nematodes?	is recommended 1	or the i	Leaf curl of papaya management of root- knot		2585
	A Carbenda	zim	1~		()
	C Carbamat		Ã.	Carbofuran		
31		arasite of mango is	D	Copper oxychloride		
î	A Striga sp.	or mango is				
		thoae sp.	В	Cuscuta sp.	()
		op.	D	Orobanche sp.		
				υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ		

			4:			
	Whic	h of the following fungus fou	nd assoc	ciated with root-knot	·(·))
	(1.8.1)	Se .;				
	1	Hernen ia spp.	В	Cercospora spp.		
i,	8/	Tusarium spp.	D	Colletotricum spp.		
Į.	Potai	o scab is caused by			+ ()
	A	Fungi	В	Actinomycetes		
	<u> </u>	Bacteria	D	Virus		
	Colle	totrichum circinans is causing.	•••••	disease in onion.	()
W1.50.0		Smudge		Downy mildew		
	$^{\prime}C$	Purple blotch	D	Neck & bulb rot		
	Stun	it disease of chrysanthemum	is cause	d by	()
	\mathbf{A}	Phytoplasma	В	Virus		
	C	√iroids	Ð	Prions		
-	Stat	e the biological control agent	for the i	management of coriander	()
. 7	wilt	_.		.•		
	A	Trichoderma viride	В	Metarrhizium anisopliae		
	C	Beauveria bassiana	D	Verticilium lacani		
1		cospora leaf spot of mari gold	l is cause	ed by	()
,	·K	Cercospora tageticola	\mathbf{B}	Cercospora beticola		
	C	Cercospora arachidicola	D	Cercospora apii		
8	Bea	n anthrocnose produces sym	ptoms or		()
	Α	Stem only	В	Leaf only		
	C	Pod only	, \D	All above		
9		covery of Bordeaux mixture	is assoc	ciated with which disease of	()
	gra	pevine?	n	A		
20 A C	\mathbf{A}_{j}	Powdery mildew	. B	Anthracnose		
	8/	Downy mildew	. D	Bird's eye spot		
40		nting, yellowing, internode	s snort	ening and severe root-gall	()
		mation are observed in	В	Root rot		
No.	A	Root nodule	D	Stem rot		
1		Root-knot	D	Own for		

0-0-0-0-0

Date: 08 . Day: We Registrati			Time: 14.00 to 16.36 Marks: 40.00 University Seat No	
	Part-l (Objective pape	r)	
2. F	Choose the correct option (A, B Rewriting/overwriting should all questions carry equal man	be avoided.	following and answer in br	acket.
I. Mo	ttle leaf of citrus is due to	deficiency of	•	(A)
(CAN)	Zinc	(B)	Iron	
` (C)	Boron	(D)	Calcium	
	ite the name of the pathoge ance during 1875.	n of grapes wl	nich caused epidemic in	(B)
(A		(B)	Plasmopara viticola	
•) Uncinula necator	(D)	None None	
	wny mildew disease can be	()		(A)
\\A	Metalaxyl MZ	(B)	Thiophanate methyl	(/ ()
) Mancozeb	(D)	Carbendazim	
4. Ye	ellow vein mosaic of okra is	, ,		(⊂)
) Aphis gossypii	(E)	Thrips tabaci	(, _)
- 1LLC)—Bemisia tabaci	(D)	All	, ,
(S) Po	otato leaf roll virus is transı	mitted by	<i>f</i>	13 CD
(A	A) Aceria cajani	(B)	Pentalonia nigronervosa	,
· (C	C) Aphis gossypi	(D)	Bemisia tabici	**
6. P	artial stem parasite of mang	go is		(D)
(A	A) Cuscuta	(B)	Striga	
((,	Z-(D)	Loranthus	
7. V	hick type of soil is favoura	ble for root-k	not nematode?	(A
till	Sandy soil	(B)	Clay soil	H
V ((C) Heavy black soil	(D)	Calcareous soil	

		/ .]
Complete stem parasite of citrus is	••	()
(A) Cuscuta	(B) Striga	-
(C) Orobanche	(D) Loranthus	125
Root-knot disease of okra is effective	ely managed by	(D)
(A) Carbendazim	(B) Carbofuran	
(C) Thiram	(D) Mancozeb	(Z \
Which vector is transmitting little l		(\subset)
(A) Myzus persicae	(B) Scertothrips dorsalis	
Hishimonas phycitis	(D) Aceria cajani	(7)
Damping off disease is favored by.		(リ)
(A) Low	(B) Medium	
(C) Optimum	(D) High	(A)
. The mycelium of Erysiphe polygon		(111
Ectophytic	(B) Semi endophytic	
(C) Endophytic	(D) None	(B)
3. Common scab of potato is caused		(0)
(A) Streptomyces griseus	、 ソ(B) Streptomyces scabies (D) Streptomyces flaveolus	
(C) Streptomyces aureofaciens	• •	$(\overline{})$
4. Mango malformation is caused by		(1)
(A) Alternaria solani	(B) Meloidogyne incognita (D) Fusarium moniliformae	
(C) Fusarium solani	1 usurum montigormae	(B)
15. Citrus gummosis is caused by	Phytophthora spp.	(,
(A) Fusarium spp	(D) Colletotrichum spp.	
(C) Pythium spp.		(D)
16. The causal organism of powdery	(B) Plasmopara viticola	`
(A) Podosphaera leucotricha	Uncinula necator	
(C) Leveillula taurica		(C)
17. The primary source of Fusarium	(B) Perithecia	
(A) Cleistothecia	(D) Sclerotia	
Chlamydospore 18. Most favourable conditions for o	\	(A
		` ' '
disease is (A) Cool and dry weather	(B) Hot and dry weather	
and himid wealler	(D) None of the above	
(C) Warm and nume was		
· · · · · · · · · · · · · · · · · · ·		

	Stem gall of anning			. ()
	Stem gall of coriander is caused by	•	a amicale	
124	(A) Colles orrichum circinans	(B)	Cercospora punicae	2
	(C) Protomyces macrosporus	(D)	Erysiphe polygoni	£()
	20. Brown ring in potato tuber is chara	acteristi	c symptom of	EA
	(A) Common scab		Bacterial wilt	
	(C) Black scurf		Late blight	发(:)
}	21. Secondary spread of citrus gummos	is takes	place througn	7(~)
	spore.		CI I I I I I I I I I I I I I I I I I I	
	(A) Oospore	(B)	Chlamydospore	_
`	Zoospore Zoospore	(D)	Sclerotia	巻のい
,	22. Bunchy top of banana is transmitted	d by	D I	SE DI
	(A) Myzus persicae		Pentalonia nigronervo.	su .
	(C) Aphis gossypii	(D)	Bemisia tabaci	XC
;)	23. Stunting, yellowing, poor fruiting, s			47.
	severe root knotting is a characteris			
	(A) Little leaf of brinjal		Damping off of brinjal	
3)	(C) Root knot of brinjal	(D)	Root rot of brinjal	YAN
	(24. Red rust of tea is caused by (A) Cephaleuros mycoidea	(D)	Vanturia inggualis	(1 1)
	(C) Exobasidium vexans	(B)	Venturia inaqualis Dentrophthoe spp.	
))	` '	(D)	• • •	YT,
	(A) Red rust	(B)	Blister blight	()
	(C) Koleroga	(D) ス(D)		
3)	26. Olive green to grey velvety spots ap			16
	buds and sepals is characteristic sy	mptoms	of disease of	40)
	apple.		· · · · · · · · · · · · · · · · · · ·	
D	(A) Powdery mildew	(B)	Fire blight	
~ /	Scab	(D)	Bacterial blight	×6.
	27. Which is the cheapest source of m	anagem	ent of the diseases?	· Pan
0	(A) Cultural practices	(B)		AV
	(C) Disease free seed	4(D)	Resistant variety	~)
	28. Citrus canker is caused by		,	LATI
	(A) Xanthomonas campestris pv.cii	ri (B)	Erwinia amylovora	(/ ;)
A	(C) Xanthomonas axonopodis	(D)	Claviceps fusiformis	
	pv.cyamopsidis			
I	29. Which hormone is used in manag	ement o	f mango malformation	2 \ (-
	(A) GA_3	(B)	IBA	" 4C)
	V(C) NAA	(D)	2,4-D	

Poot			1: 1:
- Lud-knot disease of tomato is caused	by		
) Paratylenchus macrophallus	(B)	Heterodera avenue	
Aploidoovne incognita	(D)	Anguina trute	CAT
olletotrichum capsici causing chilli d	lie bac	k/ripe fruit rot	41,17
roducestructure.			
A) Acervulus.	(B)	Pycnidia	
C) Cleistothecium	(D)	Sclerotia	(B)
Fire blight of apple is controlled by		· Johata	
(A) Penicillin	(B)		
1:	(D)	Aureofungin	(A)
(C) Tetracycline Which fungicide should be avoided f	for con	trol of powdery mides	
disease in cucurbits?			•
(A) Sulphur dust	(B)	Thiophanate methyl	
((') Mancozeb	(D)		A(B)
Mosaic disease of cucurbit is transm	nitted t	y	$(\overline{\Omega})$
(A) Myzus persicae	(B)	Aphis gossypii All	
		r All	rilt (C)
(C) Aphis craccivora Which bio-control agent is effective	e for co	Outtoi of Took is and a	
diseases?	(B)	v : :1:1 lagani	
(A) Metarrhizum anisoplae	(D)	in hannieren	` ~
(7) Trichoderma viride		,	(L)
Diplodia rosarum causes diseas	se in ro (B)) Powdery mildew	
(A) Rust	, Van	Die back	
(C) Wilt White spot appear on upper surfa	ce of th	ne leaf and turned ashy	(A)
White spot appear on upper surfa gray in later stage is a characterist	ic sym	ptoms of	
gray in later stage is a character is	(E	3) White rust	
(A) Powdery mildew	(I) Blister blight	. : ; ,
(C) Downy mildew 8. Vein clearing, puckering, mosaic,	mottle	symptoms with typical	(B)
8. Vein clearing, puckering, mosaic, circular and concentric rings are c	charac	teristics of	
circular and concentric ing		,	
(A) Papaya leaf curl	(1	D) Papaya stem rot	
(C) Papaya mosaic 39. Which guava disease produce cra	cks an	d lesions on stem?	(C)
39. Which guava disease production	()	B) Wilt	
(A) Red rust		D) Root rot	
Stem canker 40. The pathogen of moko disease sur	rvives	in	()
40 The pathogen of mono at-	(B) Air	
(A) Suckers	((D) Insects	
11/stor	(- <u>X</u> -X-X		

DEPARTMENT OF PLANT PATHOLOGY B.A.COLLEGE OF AGRICULTURE ANAND AGRICULTURAL UNIVERSITY

Multiple Choice Question Bank For Sixth Semester B.Sc.(Agri.)

Pl. Path. 6.5: Diseases of Horticultural Crops and their Management Select the appropriate answer from A, B, C, D

1.	Acervuli is formed by (A) Fusarium (B) Pythium (C) Alternaria (D) Collectotricum	(D)
2.	Fungal pathogen causing vascular wilt survive in soil in the form of	(B)
	(A) Oospore (B) Chlamydospore (C) Sclerotia (D) Conidia	
×3.	Mottle leaf of citrus is caused due to deficiency of	(A)
	(A) Zinc (B) Iron (C) Boron (D) Calcium	
4.	Each ascus normally contains number of ascospores	(C)
	(A) Four (B) Six (C) Eight (D) Two	
5 .	Emisan is a: (A) Copper fungicide (B) Organomercurial (C) Sulphur fungicide (D) None of above	(B)
6.	The abnormal increase in the size of plant organ is known as:	(B)
	(A) Hypoplasia (B) Hypertrophy (C) Both A & B (D) Atrophy	
· 7.	The term necrosis indicate:	(A)
	(A) Death of cell (B) Curling (C) Blighting (D) Atrophy	
8.	A knob like structures sent in to the host cell by fungi to absorb the nutrients is known as: (A) Appresseria (B) Rhizomorph (C) Haustoria (D) Sclerotia	(C)
9.	Fungicides which are absorbed in to the system of the plant and move to the remote site of infection are known as:	(C)
	(A) Systematic (B) Fungistatic (C) Systemic (D) Dressers	
×	1 35 /	

\	(A) Eccophytic (B) Endophytic (C) Paraphytic (D) None	
32.	Common scab of potato is caused by:	(C)
	(A) Fungi (B) Bacteria (C) Actinomycetes (D) Mycoplasma	. ,
33.	Many viral diseases can be controlled by spraying:	(D)
	(A) Systemic fungicides (B) Nematicides (C) Bactericides (D) Systemic insecticides	
34.	Mango malformation is caused by:	(D)
	(A) Alternaria solani (B) Fusarium oxysporum (C) Meloidogyne incognita (D) Fusarium moniliformae	()
35.	Late blight of potato is associated with:	(C)
	(A) Bengal famine (B) France famine (C) Irish famine (D) None	()
36.	Late blight of potato was first introduced in India in the	(B)
	(A) Darjeeling hills (B) Milgiri hills (C) Himalayan hills (D) Arvalli hills	,
37.	Citrus gummosis is caused by:	(C)
	(A) Fusarium spp. (B) Pythium spp. (D) <u>Phytophthora spp.</u> (D) <u>Colletotricum spp.</u>	
<i>3</i> 8.	The disease caused by algae is known as:	(C)
	(A) Brown rust (B) Yellow rust (P) Stem rust	(0)
39.	The common name of Tiltis:	(B)
	(A) Difenconazole (B) Propiconazole (C) Hexaconazole (D) Penconazole	(5)
40.	Bunchy top disease of banana was introduced in India from:	(A)
,	A) Sri Lanka (B) South Africa (C) Europe (D) Bangladesh	(A)
41.	State the name of grape vine disease with which the discovery of Bordeaux	(B)
	(A) Powdery mildew (C) Bird's eye spot	

	(D) None of above	
*	Root rot is favoured by soil moisture:	(A)
	Low soil moisture (B) High soil moisture optimum soil moisture (D) Water stagnation in field	
43.	Most of the banana diseases spread in new area through:	(C)
	(A) Soil (B) Air Suckers (D) Fruits	
44.	State the name of disease caused due to Alternaria porri in onion:	(D)
	(A) Rust (B) Onion smudge (C) Damping off Purple blotch	
45.	State the name of causal organism causing powdery mildew in grapes:	(D)
	(A) Podosphaera leucotricha (C) Plasmopara viticola (B) Leveillula taurica (D) Uncinula necator	
_46.	The primary source of inoculum for Fusarium wilt disease is:	(B)
	(A) Cleistothecia (B) Clamydospore (C) Perithecia (D) Sclerotia	
47.	The common name of Rogar is	(D)
	(A) Endosulfan (B) Chlorpyriphos (C) Quinalphos (D) Dimethoate	
48:	Garlic mosaic is transmitted through	(D)
	(A) Jassids (B) Whitefly (C) Leaf hopper (D) Aphids	
49.	State the name of causal organism causing Sigatoka disease in banana	(B)
	(A) Alternaria alternata (C) Macrophomina phaseolina (B) Gercospora musai (D) Colletotrichum Sp.	1 we 1
50	Banana mosaic is transmitted through	(B)
	(A) Red bug (B) Jassids (C) Aphids (D) Mites	*
51	Chilli leaf curl is transmitted through	(C)
	(A) Aphids (B) Jassids (C) White fly (D) Mites	
52	2. Little leaf of brinjal is caused by	(C)

	(A) Virus (B) Viroids (C) Phytoplasma (D) Nematodes	
	State the name of sexual spores produced by Phytophthora	(B)
	(A) Clamydospore (B) Ospore (C) Zygospore (D) Zoospore	
54.	State the name of insect which helps in transmission of citrus canker disease	(C)
	(A) Red mite (B) Leaf hopper (C) Leaf minor (D) Thrips	
55.	Blitox-50 contains:	(C)
	(A) Sulphur (B) Organo mercurials (C) Copper (D) Manganese	
56.	Stem gall of coriender is caused by:	(Cj
	(A) Cercospora punicae (B) Colletotricum circinans (C) Protomyces macrosporus (D) Gloeosporium empelophagum	
57.	Cercospora punicae infect mainly which part of pomegranate tree	(B)
	(A) Stem (B) Fruits (C) Leaves (D) Branches	
57.	Onion rust is	(A)
	(A) Autocious (B) Heterocious (C) Herbacious (D) All above	•
58.	Thiophanate methyl is traded as:	(C)
	(A) Ridomil (B) Bavistin (C) Popsin M (D) Dithane M-45	•
- 59.		(D)
	(A) Fungi (B) Bacteria (C) Algae (D) Nematodes	
60.	200ppm =gm / L. water.	(A)
	(A) 0.2 gm (B) 2 gm (C) 0.02 gm (D) 20 gm	
61	,	(C)
	(A) Virus (B) Viroid (2) Phytoplasma (D) Spiroplasma	
62	0.05% =ppm. = \(\sum_{130} \times 10,0976	(C)

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	pulp get exposed:	* *)
Ž	(C) Anthracnose (B) Downy mildew (C) Anthracnose (D) Bird's eye spot	
75.	State the name of onion disease caused due to Colletotricum circinans:	(D)
	(A) Rust (B) Purple blotch (C) Rhizome rot (D) Smudge	
76.	Red rust of tea is caused by: (A) Fungi (B) Nematodes (C) Bacteria (D) Algae	(D)
77.	State the name of causal organism which is responsible for stem bleeding disease in coconut:	(B)
	(A) Botrydiplodia theobromae (B) Ceratocystis paradoxa (C) Rhizoctonia solani (D) Phytophthora katsurae	
78.	Coffee rust was first reported from:	(C)
	(A) Java (B) Fiji (C) Ceylon (D) Sumatra	
79.	State the name of grapevine disease in which the infected berries and bunches become mummified:	(D)
	(A) Powdery mildew (B) Fan leaf virus (C) Anthracnose (D) Downy mildew	
80.	State the name of coffee disease caused by Hemileia vastatrix:	(D)
<u>. </u>	(A) Twig rot (B) Black rot (C) Kolerago (D) Rust	
81.	Usually brown and sunken spots with grey central area on bean pods is due to :	(C)
	(A) Powdery mildew (B) Downy mildew (C) Anthracnose (D) Yellow mosaic virus	
82	Drying of twigs from tip to down wards in rose is caused due to:	(D)
	(A) Phytophthora palmivora (B) Sphaerotheca pannosa (C) Leweillula taurica (D) Diplodia rosarum	` ,
83	Olive green to grey velvety spots on apple young leaves, flower buds and sepals	(C)