STCMB05 :- Biofertilizers & Biopesticides

GOVERNMENT SCIENCE COLLEGE,

Class:

Batch	No: 2021-22.				Dat	e of l	Pract	icals	take	n				
Roll No.	Name of the Student	Group/ Subject	26/21 21	27H# 121	2817121	2917 12	30/2/2	3117/2	12/8/2	12/8/21	418/2	5/8/21	618/31	71812
			1	2	3	4	5	6	7	8	9	10	11	12
1.	Archana Kuman D chartha	Tymira	B	er	P	Ar	A	Or	A	- a	A	Ø	BA	-A
2	Dhumistha M chaudhai	11	and	A	m	o.me	Dme	DANG	A	no	-TC	A	A	oma
3.	Tabamui T. chaudbard	-11	Æ	B	A	A	Œ	A	R	R	A	æ	AF	Q
u.	Knitikimin / churcher	11	A	W	a	Dr	a	A	D	Õ	D	D	A	Ø
5.	Rachnahen S. churchan	tı.	2SL	asc	A	F.SC	ast	NE	A	asc	SL	A	est.	p.sc
6.	Ridithi Al, chundhan	11 12	ade	anc	and	anc	anc	2.00	NC	NC	anc	0.20	DNG	Six
7	Upushiken 7 chaudhan	TF	U.J.C	U.J.C	A	U.J.C	UJC	UJC	A	UJL	U.J.C	J.J.C	UJC	U.J.C
8	Vizaikumux H. chauhan	111	, HC	MC	y in	A	1.4C	, yr	V.HC	Line	Jul	A	V.MC	1411
9.	Misharty B. Desci	17	milet	- setter	OF	A	RUT	an	al	Tisty	A	word	Might	aid
10.	Alidhikumani D. Desai	18	D	A	D	R	A	N	N	B	6	R	A	(W
111	Hixen D. Count	11		ING	R ALM	A	aur	HARE	uns	LAN	A	8AST	4 py	LAgur
12	Knishting S. Cocimit	11	ami	Que	A	ans	Burs	A	Que	Rud	Del	Exami	ader	A
12.	Mansiben T. Coumit	X	mer	A	No	A	Bu	mi	mir	A	A	m	me	. Our
14.	SharpNphai Co. Coumit	11	0	3	A	6	(S)	0	A	(\mathfrak{I})	S	9	A	
15.	Suletukumin K. Coumit	191910	K.T.	Ex yar	1 Key	A	1 kgur	(kgar	10	ind	A	LKYM	3.55	A
16	Khusikuman H. Cashil	11 .	Pho	A	Rho	Ceno	Bha	Bha	Rha	Rha	A	Dha	Bha	Bh
17.	Nidhi nl. Kakintur	11	QP.	DE	De	Q2	A	AI	RP2	N	R	R	MP	- RZ
18	Maulitchber R. nickum	4 V	MBA	M.B.	A	M.B.A	MBN	MAN	M.B.	VA.	M.B.A	MRA	M.B.I	m.B.
19.	Diudu kumun R. Dutel	V	DRP	A	DRP	DRP	ORP	ORR	ORP	ORR	DRP	ORP	A	DRP
20	Krisprechen Al. Putel	Ń	VN	ve	140	12	YNE	A	Jer.	KR	Kin	12	KDE	KN
21.	Reijiti R. Pertel	T	pote	Der	and	A	Plus	DE	28	PP	aus	A.	ent	Xer.
22	Tanvi T. Dutel	11	and	A	Des	Ree	Bers	Dee	Der	A	Dis	Dey	ES?	RE
22	Writeril M. Doiter	n I	uft	my	Why	A	wit	Whe	M	4	Ny.	A	V-fe	Vic
24.	Vishalklumar C. Dull	17	1.58	1.58	A	21.4	NSP	1.18	1.58	A	1.19	1.19	152	1.51
95.	Vashachui D. D. Lel	11	(g)	G	O	A	Q	ED	A	CD	Ø	- A	Q	Ø
21	Yushui B Dulet	1 11	Rut	AF	Put	por	A	Ride	Art	Pet	4.2	A	At	Ret
27	Yulet A Pritel	14	A	y. And	100	A	Par	2.PR	59.	-A.	.89	194	A	HUL
22	Tuchen D. D. 2.	11	DP-	PAG	PR	8Rd	A	De	al	A	DF	DP/	De	Pr
20.	Savaab 10 Cuival	11	à	A	A	a	8	a	AL	a	A	R	- AD	AT
20	Ankily D. Calipla	Are	RI	Q	or	0	A	Q	a	A	9	A	A	A
20.	Tout' IL Toulur	1 1	Buti	Toup	Lupt	prut	Just	pupti	mup	Trup	inunt	Toopt	Tower	the
20	Mitalilum in Sulmit	0 11	VTV	A	ine	VCA	A	J.~~	, N ^C	1.00	une	A	3.2	1 m
24.	Turkuman J. Vanal	V	R	3-	A	R	85	Tur	1	A	a/	ar	ar	A
33.	Alabert On Vasava.		S.	R	RA	A	Te	-	PO	a	CA	100	-	F
34.	Relieve Dasava		NU	av	AV	and	OAV	and V	14	AV	AV	AU	aJ	LAV
35.	HUTUTUS H. Vasava		_n.	p.	H	In .	L	P.	At.	P	F	PIT	P.	Pu.
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Ai Exe	im or Details of the Practic rcise perfomed on the said	cal / d date		11	and the second							1		
Sim	n. of Teacher /Lab In-char	ge	G	A	es	E	A	A	12	P	AS	Es	3	181
Sigi	a. or reacher/Lab m-char	50	12	2	12	121	2	15	12	12	R	15	13	R

Roll Call Register for the Practicals of the 1st / 2nd Term Month

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5	=	2	2	2	2	\$	2	a	3	3	52	5	practicals	Total no. of practicals	for the	Remarks	5
12	14	15	16	17	10	10	20	-			U	III.	attended		term/		0
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MBJ	1983	MBJ	M.B.	A	MR	TMAT	MRT	m p	MAT	MOT	me	MOT	A	F D D T	000	mar	MEY
BRP	DRP	ORP	ORP	DRQ	DRP	ORP	GRP	DRP	QQQ	ERP	A	DRP	(200)	11.B.J	CDC B-1	M.B.J	100
4 CM	1 per	×P	yp	NP	1 cm	nes	A	W.N	J.M	N	N.N.	KN	N.N.P	NP	URF UP	CARP	en all
epo	de	A	er	ard	Sor	iog	Deg	6 M	18 A	A	Sag	Do	Pout	Quet	ANTE	(2.101 (2.101	Que
Opt	Or	Des	0.2	A	Or	And	5.9) per	5	6	the	Cric)	Divete	Doute	REPAR	Anton	a fel
W	A	ni	VL	vir	A	VI.	VI	Ve.	VIC	Whe	Vi	VA	A	14	Den	A	upice
1.58	VSP	1.19	J.SP	1.58	158	10.1	A	, SP	11	117	, ip	191	1 10	VIE	with	A	AAT.
D	Q	A	Q	a	A	AD	Q	(D)	N	(MA	M	Ô	V . J.I	V. JP	D	VSP	C11.V
AL	Dat	At	taste	A	Alte	Add	Dot	A.J	for,	1.1	J.	ALA	Alaet	yn	alet	gr ,	Q
YAP	1.10	NAR	1mm	JAP	94.11	A	JAP	101	10	VAR	ial	10	HAP .	H	Gener	anger	A
ROP	n	De	ØB	AP	TP	TO	TP	PO	E CE	th	A	m.	y.m.1	A	Y.A.P	9.FI.Y	YAP
Q	A.	A	R	a	R	A	R	a	a -	a	a	H	H	QP_	De	A	QP
A	Q	R	Q	0	R	Q	Cr A	0	R	N	00	el O	the state	AL	AL-	E_	
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14	15	13	S	15	E	5	15	15	15	15	15	14	121	(2)	41	OL	
3	VA	U	NE	1E	14	JE	NU	10	14	6	18	18	3	12)	(2)	1551	1

GOVERNMENT SCIENCE COLLEGE,

Class:

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Semester:

Division:

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Roll No.	Name of the Student	Group/ Subject	25/×121	2×1×121	2012/101	2912/21	30/2/21	311×121	310,21	36/21	12/0/3	5/4/21	5/2/2	78/21
			1	2	3	4	5	6	7	8	9	10	11	12
1.	Amiulihan C. Chaudhar	S.Y. Milm	an	No Con	alle	Ref (alle	AD-S(alles	QUE !	Adles	QUY	Ave	Ad
2.	Bharacoubhai R. Chaudhari	p .	SP	BP	ap	ASP.	5P	EP.	\$P	GP	ASP	BR	BD	BP
3.	Harchidehen S. Chaudhar	11	A	2860	350	CASE	Dit	pasi	PS	Part	QDS:	(DO)F	54	1954
4	Homenshiben S. churdhan	1 11 (YOP	root	Todo	Que'	Add	FOR	A.	Fed	Jud	Que	- par	ap
5.	Taquetiben P. Chaudhau	1 11 (Ang>	COVE	ANS	300	AND.	and	3 P	gur (Dh2	Que	P	Y)
6.	Thedepkumer V, Chaudhau	11	Dod	Zde	A	gal	Jol 1	Q	Ad	Fod	For	10th	300	Juar
7.	Tixel & main D. Chaudher	1 11	logi	ane	ine	mer	DING	JIMa	Sino	sine	A	DIDO	Sino	June
8.	Komelkumari P. chaudhar	1	BP.	ag.	A	S.	A	(TA)	Teo,	P	R	94		R
9.	Mukundkumar K. chaudha	n' 11	mbe	mhe	Cohe	One	me	IA.	Che	mbe	Ope	whe	Cre	CYTE
10.	Nikituben M. Chuydhar	1111	NME	NM	VILO	NMO	NMO	A	NYC	NM	NHO	NHO	NM	NMS
11.	Puichen 5, Chaudhavi	- 11	em	A	em	em	em	eha	em	Pm	em	em	eno	UPIL
12	Richniben R. Chaudhan	11	RBS	RE	R.PS	PUC	RPC	8.29	P.PC	DE	H	RIE	(2)	RBC
13.	Roshunikuman B. chaudha	10 11	Portos	Rosban	Romi	Restrai	A	Robe	Robin	Racheri	Raston	Robal	A	Rosbe
14.	Simizupen R. Chaudha	n' 11	Sly	QU	A	ely	SU	SUL	SU	sly	Ely	SU	SUB	Elle
IT.	Shrenciben D. Chaudhar	v 11 (322	304	BYX	3200	9012	Que	A	BUL	2000	Roy	300	Sil
16.	Vikeshkymar Richaudhar	1 11 .	A	P	P	4P	AP2	2P	A.B	AFP	4P	4P	- AP	VA
17.	Vivekbbai B. chaydhor	11	TP	XP	P	DP.	AP	XP	ST.P	AD	XP	AP	4D	A
15.	Ishani J. Daliya	H	Bni	19:00	1990	-85	A.	Br	ist	39.00	19312	18h	28/2	281
19	Mitelkumar V. aumit	11	Pro	030	Colo	A	wom	Die	Can	Der	A	COM	A	Maria
20	Vishalphai A. Camit	11	A	02	9	S.	Q	02	9	E.	4	V	A	4
21.	Nehaben D. Padher	11	P. Chow	Ner	aller.	Nege	per	Delos	A	ver	Nere	Ner	pero	Ner
22.	Hiry Kumari R. Panchas	11	P	()	and	42	A	(P)	Fr	40	fer	AN	4	H
23.	Komal S. Panchal	they are	A	Q	CH.	P	P	QQ.	42	4	P	qu.	P	K
24.	Krishnaben N. Runchal	tı	kishme	hatthe	Veritter	A.	with	vensite	reish	A	wither	Lonshin O	versite	Vash
25	Thitekumari K. Parmar	11	.A (TKE	IKE	SKIE	DEla	OF	JKE	IRIUS	TKP	DI	TKRO	DKE
16.	Artiben M. Patel	11	3241	(Den)	091	(19)	140	- AI	191	000	Sons	09d	Pat	(CA)
27.	Komal N. Patel	11	Qual	Dept	Rosal	A	Owen	0	Romph	Dup	Que	Drip	A	Pres
28.	Knutikumuri H. Putel	n n El	Pert	Druti (Dant	Prut	1220	Pre	Radi	On	AA	Deut	Prid	Dert
29.	Manshikumari T. Patel	η	monshi	Proubi	Marth	Monshi	Reit	Mashi	Wenshi	Junto	Death	Manut	Dashi	Flack
30.	Mansiben M. Putel	11	Que.	P	A	P	P.	P	Q2	P	P	P	PC	P
31.	Prinseehuman A. Patel	11	0980	000	1200	2.9	6.000	P.PP	PA	6000	P.BP	p.pm	p. por	P.P.
.5 2	Salaphi D. Patel	11	Ser	SPA	Ser	58.90	585	39.9	PSPY	29:12	SPP	A	SPRE	S.P.P
22.	Sucibbibahan H. Partel	u (Sha	Orz	sput	A	Bou	ger.	Ster	3407	an	8pg	Der	3pt
21	Unnati H. Patel	We with	what	anat	wint	uno	and	uno	which	Oper	H.	what	Once	Qna
34.	Townshaping M. Shall	. 4	Mstal	Astail	A	Made	Mohai	idal	Netient	hotal	Piailt	Astall	hsailth	realt
36.	Rhimikahen Perkinnin		A	CHIZIR	A	61.21R	Glan	GHEN	921	ला-सा दर्भाष	SA	010	Glan	जार
21	Kinial Len Q Varia	11	K.G.V	KOLV	KUEN	Kasu	A	K.G.	A	K.Q.1	K.G.V	K.G.V	KGI	K.G.
24	Magalan D. harris	11	N	A	m	m	W	(m)	m	m	a	m	m	(m
21	C C C C C C C C C C C C C C C C C C C		R.R.V	0.0V	R.R.	RRV	R.R.V	R.R.V	R.R.V	R.R.V	R.R.	A	R.R.	RR
20	Marythopau VI VAISau		11.11 .	10.4	1.4		and the statement			11 11	a state of the second			
39.	Purthbher V. Vary	5	5. R.V	S.R.V	S.R.V	S.R.V	S. R.V	S.R.	A	GRM	SRV	S.RI	S.R.	VA

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Aim or Details of the Practical / Exercise perfomed on the said date

Sign. of Teacher/Lab In-charge

Year_

Roll Call Register for the Practicals of the 1st / 2nd Term Month_

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10	100	200	3/2	1/8	5	Se	102	10	5	3	5	3	No. of extra	Total no. of	certified	Remarks	10
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13	14	15	16	17	18	19	20	21	22	23	24	25			year		- 4
alto	bill.	SILA	ANY	2193	AIL	5/107	MA	2112	all	AN	DU	ar	Darly?	Calo D	all?	mang)	Adus
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102	and	an	218	The state	CITY B	H	HI C	oh	Oh 3	aus	N	018	andra	Also	22	ans	ans
Bil	200	g	por	e	Con la	par	12	2	por	200	Q. 1	09	and	000	ode	Grand	Back
have	Jac	gere	130	500	you -	a cot	600	200	Jus	gue	ga	- OPE	2005	gual	equi	inas	TIMa
24.	SIM	JU	SM	Jung	Om	am	JAL	3	DW	35	3	Dir.	JING	Jula	JULE	5	A
dep.	A		CAL)	19	Ke.	P	940	40	GAR	24	ah	ep	40	(F)	A.	abolt	mhel
me	MY B	COLIS	CUL	acre	CALE	CUR	COLD	ryne	Core	1 y le	WID	1 yre	eres	whe	mines	USLIS .	NM
NICO	NHO	Mo	NMS	HUP	- MMO	- AT	Ame	A	NUP	Pire	NIE	MARC	NMG	NMO	H	NEG	Sha
(MA)	Chris	em	C	en	A	PER	RUN	Len	BIL	Part (KIE (em	A	(EIII)	(PADY)	17	DRC
RA	p.y	P.P.	FRE	BRC	P.P	RB	RE	est	RE	-122	R.12	2.12	RRC	R.R.C	R.KC	R.RL	1515
Rashro	Rosho	Resta	Barne	Rosh	Rashin	A	Rahr	Bosh	postro	Rocher	Roshi	poster	Roshmi	Rostrat	Roshm	Roshm	Kashou
Suy	glu	Elle	S	1300	A	Ely	Sly	Ele	sy	SU	A	sly	SUU	ely	SU	SUY	A
307	Dalm	SUD (202	600	500	300	800	ans	300	800	80	304	and (303	Odv3	800 0	Son
all.	AP.	att	XP	AP	AP	top	100	XA	60	VF	XP	the	XA	VP	XP	that .	AT B
AP	AP.	P	P	5P	AT	ver.	P	PP	APP	AP	AP	Pat	SP.	NP.	VP.	AP2	V402
-1907	-Sh	39%	ST	2-930	15h	tism	355	031	785	(D)	SN	8×	JSM.	1812.1	JSM,	JSM	TSM
Man	Cha	man	A	Cher	The	Color	two	bour	win	PA	gum	man	Winnur	agernut	Wilmit	A	Culture
A.	æ.	P	F.	P	QP.	P	Q.	B.	P.	Ø	P.	P	D.	4P	æ	₽ _	¥.
DOLAS	RAPE	peto	rethe	PER	ret	aller	ren	allas	rene	Ache	note	adus	Nelse	pepa	pleha	nena	Aches
(II)	P	qu.	De	De	p.	P	P	P	De	P	P	P	æ	P	P	P.	R
10 Am		A	NT N	without	in	with	Vallo	Harshall	A	wish	KADDET	WIN	Konshma	knishmg	1400 Strang	Koishma	Kaishma
R	D	D	D	Q	P	R	P	P	40	P	P	P	P	QU.	Ð	B	Ria
Kleez	Klus	IKR	JKE	A	EXRE	EXPLY	BKR	A	IKL	TKE	IKRE	DKE	P A	IKCUS	aklus	OKlas	(DKHus
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Government Science College, Vankal

Short term Course: STC 5 Biofertilizers and Biopesticides Course Code: STCMB05 Duration: 30 hours (1 hours per lecture) Time Table

Day	Module	Торіс	Hours
1	Module 1: Introduction to Biofertilizers and Biopesticides	Definition and significance	1
2	Module 1: Introduction to Biofertilizers and Biopesticides	Historical background and development	1
3	Module 1: Introduction to Biofertilizers and Biopesticides	Comparison with chemical fertilizers and pesticides	1
4	Module 1: Introduction to Biofertilizers and Biopesticides	Environmental and economic benefits	1
5	Module 2: Types of Biofertilizers	Nitrogen-fixing biofertilizers (e.g., Rhizobium, Azospirillum)	1
6	Module 2: Types of Biofertilizers	Phosphate-solubilizing biofertilizers (e.g., Pseudomonas, Bacillus)	1
7	Module 2: Types of Biofertilizers	Potassium-mobilizing biofertilizers	1
8	Module 2: Types of Biofertilizers	Plant growth-promoting rhizobacteria (PGPR)	1
9	Module 2: Types of Biofertilizers	Mycorrhizal biofertilizers	1
10	Module 3: Types of Biopesticides	Microbial biopesticides (e.g., Bacillus thuringiensis, Trichoderma)	1
11	Module 3: Types of Biopesticides	Plant-incorporated protectants (PIPs)	1
12	Module 3: Types of Biopesticides	Biochemical biopesticides	1
13	Module 3: Types of Biopesticides	Beneficial insects as biopesticides	1
14	Module 3: Types of Biopesticides	Case studies of successful biopesticide applications	1
15	Module 4: Production Techniques	Isolation and identification of effective strains	1
16	Module 4: Production Techniques	Mass production techniques	1
17	Module 4: Production Techniques	Formulation and quality control	1
18	Module 4: Production Techniques	Storage and shelf-life management	1
19	Module 5: Benefits and Challenges	Benefits to soil health and crop productivity	1
20	Module 5: Benefits and Challenges	Challenges in adoption and large-scale application	1
21	Module 5: Benefits and Challenges	Economic considerations and market	1

Day	Module	Торіс	Hours
		potential	
22	Module 5: Benefits and Challenges	Future prospects and innovations	1
23	Module 1: Review and Q&A	Review of Module 1 topics and Q&A	1
24	Module 2: Review and Q&A	Review of Module 2 topics and Q&A	1
25	Module 3: Review and Q&A	Review of Module 3 topics and Q&A	1
26	Module 4: Review and Q&A	Review of Module 4 topics and Q&A	1
27	Module 5: Review and Q&A	Review of Module 5 topics and Q&A	1
28	Practical Application	Case study discussions and practical applications	1
29	Practical Application	Group activity: Designing a biofertilizer or biopesticide strategy	1
30	Final Review and Assessment	Course summary, review, and assessment	1

Government Science College, Vankal

Short term Course: STC 5 Biofertilizers and Biopesticides Course Code: STCMB05 Duration: 30 hours (1 hours per lecture) Syllabus covered

Day	Module	Торіс	Hours
1	Module 1: Introduction to Biofertilizers and Biopesticides	Definition and significance	1
2	Module 1: Introduction to Biofertilizers and Biopesticides	Historical background and development	1
3	Module 1: Introduction to Biofertilizers and Biopesticides	Comparison with chemical fertilizers and pesticides	1
4	Module 1: Introduction to Biofertilizers and Biopesticides	Environmental and economic benefits	1
5	Module 2: Types of Biofertilizers	Nitrogen-fixing biofertilizers (e.g., Rhizobium, Azospirillum)	1
6	Module 2: Types of Biofertilizers	Phosphate-solubilizing biofertilizers (e.g., Pseudomonas, Bacillus)	1
7	Module 2: Types of Biofertilizers	Potassium-mobilizing biofertilizers	1
8	Module 2: Types of Biofertilizers	Plant growth-promoting rhizobacteria (PGPR)	1
9	Module 2: Types of Biofertilizers	Mycorrhizal biofertilizers	1
10	Module 3: Types of Biopesticides	Microbial biopesticides (e.g., Bacillus thuringiensis, Trichoderma)	1
11	Module 3: Types of Biopesticides	Plant-incorporated protectants (PIPs)	1
12	Module 3: Types of Biopesticides	Biochemical biopesticides	1
13	Module 3: Types of Biopesticides	Beneficial insects as biopesticides	1
14	Module 3: Types of Biopesticides	Case studies of successful biopesticide applications	1
15	Module 4: Production Techniques	Isolation and identification of effective strains	1
16	Module 4: Production Techniques	Mass production techniques	1
17	Module 4: Production Techniques	Formulation and quality control	1
18	Module 4: Production Techniques	Storage and shelf-life management	1
19	Module 5: Benefits and Challenges	Benefits to soil health and crop productivity	1
20	Module 5: Benefits and Challenges	Challenges in adoption and large-scale application	1
21	Module 5: Benefits and Challenges	Economic considerations and market	1

Day	Module	Торіс	Hours
		potential	
22	Module 5: Benefits and Challenges	Future prospects and innovations	1
23	Module 1: Review and Q&A	Review of Module 1 topics and Q&A	1
24	Module 2: Review and Q&A	Review of Module 2 topics and Q&A	1
25	Module 3: Review and Q&A	Review of Module 3 topics and Q&A	1
26	Module 4: Review and Q&A	Review of Module 4 topics and Q&A	1
27	Module 5: Review and Q&A	Review of Module 5 topics and Q&A	1
28	Practical Application	Case study discussions and practical applications	1
29	Practical Application	Group activity: Designing a biofertilizer or biopesticide strategy	1
30	Final Review and Assessment	Course summary, review, and assessment	1



Date: 06/09/2021

This is to certify that Mr. / Ms. <u>Archanakumari R. Chaudhari</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB05: Biofertilizers and Biopesticides</u> offered by Department of Microbiology from <u>26/07/2021 to 02/09/2021</u> and secured "<u>A</u>" grade during performance evaluation.

felecter

Principal

Hunnarkur

Course Coordinator

HJunnarkur

Head of the Department



Date: 06/09/2021

This is to certify that Mr. / Ms. <u>Sweta K. Gamit</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB05: Biofertilizers and Biopesticides</u> offered by Department of Microbiology from <u>26/07/2021 to 02/09/2021</u> and secured "<u>A</u>" grade during performance evaluation.

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Principal

AJunnarkur

Course Coordinator

AJunnarkur

Head of the Department



Date: 06/09/2021

This is to certify that Mr. / Ms. <u>Nehal P. Vasava</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB05: Biofertilizers and Biopesticides</u> offered by Department of Microbiology from <u>26/07/2021 to 02/09/2021</u> and secured "<u>A"</u> grade during performance evaluation.

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HJunnarkur

Course Coordinator

AJunnarkur

Head of the Department



Date: 06/09/2021

This is to certify that Mr. / Ms. <u>Yashvi R. Patel</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB05: Biofertilizers and Biopesticides</u> offered by Department of Microbiology from <u>26/07/2021 to 02/09/2021</u> and secured "<u>A"</u> grade during performance evaluation.

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Course Coordinator

AJunnarkur

Head of the Department



Date: 06/09/2021

This is to certify that Mr. / Ms. <u>Bhargav R. Chaudhari</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB05: Biofertilizers and Biopesticides</u> offered by Department of Microbiology from <u>26/07/2021 to 02/09/2021</u> and secured "<u>A"</u> grade during performance evaluation.

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Principal

AJunnarkur

Course Coordinator

AJunnarkur

Head of the Department

Government Science College, Vankal Department of Microbiology Short-term course (2021-22) Course Name: Biofertilizer and Biopesticides

Roll no: Date:02/09/2021

1. A)	What are biofertilize Enhancing soil fertili	ers prima ty throug	rily used for? sh synthetic chemicals	cals B) Improving plant health by increasing nutrient availability					
C)	Controlling pests			D) Reducing plant disease	S				
2.	Which of the follow	ing is a c	common type of biofer	rtilizer?					
A)	Rhizobium	B) Ba	cillus thuringiensis	C) Glyphosate	D) Urea				
3.	What is the primary	function	of Rhizobium in biof	ertilizers?					
A)	Fixing nitrogen in the	e soil		B) Decomposing organic	matter				
C)	Enhancing phosphoru	ıs availal	bility	D) Suppressing weed gro	wth				
4.	Which biofertilizer i	s known	for enhancing phosph	norus availability to plants?					
A)	Mycorrhizae	B) Azot	obacter	C) Cyanobacteria	D) Trichoderma				
5.	Which of the follow	ing is NO	OT a type of biofertiliz	zer?					
A)	Azospirillum	B) Fran	kia	C) Trichoderma	D) Chlorpyrifos				
6.	Which group of mic	roorgani	sms is often used as b	iofertilizers to fix atmospheri	e nitrogen?				
A)	Bacteria	B) Fung	i	C) Algae D) Virus					
7.	Which plant is comm	nonly as	sociated with the biofe	ertilizer mycorrhizae?					
A)	Legumes	B) Cerea	l grains	C) Tomatoes	D) Potatoes				
8.	Azotobacter is a type	e of biof	ertilizer that is particu	larly effective in which envir	conment?				
A)	Acidic soils	B) Alkali	ne soils	C) Waterlogged soils	D) Saline soils				
9.	Which biofertilizer i	s especia	ally beneficial for enha	ancing soil organic matter?					
A)	Nitrogen-fixing bacte	eria	B) Compost	C) Mycorrhizae	D) Seaweed extract				
10.	Which microorganis	m is use	d in the production of	biofertilizer to decompose or	rganic matter and release nutrients?				
A)	Azospirillum		B) Rhizobium	C) Trichoderma	D) Bacillus subtilis				
11.	What are biopesticid	les used :	for?						
A)	Enhancing soil fertili	ty		B) Controlling pest populat	ions				
C)	Promoting plant grow	vth		D) Increasing water retentio	n				
12.	Which of the follow	ing is a v	vell-known biopestici	de that targets insects?					
A)	Bacillus thuringiensis	s (Bt)	B) Glomus spp.	C) Azotobacter	D) Rhizobium				
13.	Which biopesticide	is a fung	al agent that is effective	ve against various plant disea	uses?				
A)	Beauveria bassiana		B) Trichoderma spp.	C) Pseudomonas fluorescen	D) Aspergillus niger				
14.	What is the main tar	get of the	e biopesticide Bacillus	s thuringiensis (Bt)?					
A)	Weeds		B) Nematodes	C) Insects D) Fungi					

15. Which type of biopesticide involves the use of naturally occurring predators or parasites?

A) Microbial biopesticides B) Plant-based biopesticides C) Biochemical biopesticides D) Biological control agents 16. Which biopesticide is derived from the neem tree? A) Neem oil B) Pyrethrin D) Chlorantraniliprole C) Spinosad 17. Which biopesticide acts by disrupting the development of insect larvae? C) Insect parasitic nematodes A) Bt toxin B) Baculovirus D) Trichoderma spp. 18. Which biopesticide is effective against a wide range of fungal pathogens? A) Pseudomonas fluorescens B) Bacillus subtilis C) Beauveria bassiana D) Trichoderma spp. 19. Which biopesticide is known for its use in controlling soil-borne pathogens? A) Pseudomonas fluorescens B) Beauveria bassiana C) Bacillus thuringiensis D) Rhizobium 20. Which biopesticide is a natural insecticide extracted from chrysanthemum flowers? A) Spinosad B) Pvrethrin C) Neem oil D) Bacillus thuringiensis 21. Which of the following is a benefit of using both biofertilizers and biopesticides in agriculture? A) Increased reliance on synthetic chemicals B) Enhanced crop yield and reduced pest damage C) Decreased soil fertility D) Increased water usage 22. Which organism can be both a biofertilizer and a biopesticide? A) Trichoderma spp. B) Bacillus thuringiensis C) Azospirillum D) Beauveria bassiana 23. Which type of biopesticide is derived from plant extracts and used for pest control? A) Plant-derived biopesticides B) Microbial biopesticides C) Biochemical biopesticides D) Inorganic biopesticides 24. Which of the following biopesticides is often used to control nematodes in the soil? A) Pyrethrin B) Bacillus thuringiensis C) Insect parasitic nematodes D) Neem oil 25. Which method is used to apply biofertilizers and biopesticides effectively in agricultural fields? A) Broadcast seeding C) Deep plowing D) Overhead irrigation B) Foliar spraying





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