STCMB05 :- Biofertilizers & Biopesticides

GOVERNMENT SCIENCE COLLEGE,

Class: _____ Semester: Term - I Division: _____

Batch No: 2021-22.

Date of Practicals taken

Roll No.	Name of the Student	Group/ Subject	26/7/21	27/7/21	28/7/21	29/7/21	30/7/21	31/7/21	2/8/21	3/8/21	4/8/21	5/8/21	6/8/21	7/8/21
			1	2	3	4	5	6	7	8	9	10	11	12
1.	Archana kumari R. chaudhari	T.Y micro	A	A	A	A	A	A	A	A	A	A	A	A
2.	Dharmistha M. chaudhari	II	D.me	A	D.me	D.me	D.me	D.me	A	D.me	D.me	A	A	D.me
3.	Jahanvi J. chaudhari	II	J	J	J	A	J	J	J	J	A	J	J	J
4.	Kruti kumari L. chaudhari	II	A	KL	KL	KL	KL	A	KL	KL	KL	KL	A	KL
5.	Rachnaben S. chaudhari	II	R.SC	R.SC	A	R.SC	R.SC	R.SC	A	R.SC	R.SC	A	R.SC	R.SC
6.	Riddhi N. chaudhari	II	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC	R.NC
7.	Urvashiben J. chaudhari	II	U.J.C	U.J.C	A	U.J.C	U.J.C	U.J.C	A	U.J.C	U.J.C	U.J.C	U.J.C	U.J.C
8.	Virajkumar H. chauhan.	II	V.HC	V.HC	V.HC	A	V.HC	V.HC	V.HC	V.HC	V.HC	A	V.HC	V.HC
9.	Mishrita B. Desai	II	Mishrita	Mishrita	Mishrita	A	Mishrita	Mishrita	Mishrita	Mishrita	A	Mishrita	Mishrita	Mishrita
10.	Nidhikumari D. Desai	II	N	A	N	N	A	N	N	N	N	N	A	N
11.	Hiren A. Gamit	II	A	H.A.G	H.A.G	A	H.A.G	H.A.G	H.A.G	H.A.G	A	H.A.G	H.A.G	H.A.G
12.	Krishtina S. Gamit	II	K.S.G	K.S.G	A	K.S.G	K.S.G	A	K.S.G	K.S.G	K.S.G	K.S.G	K.S.G	A
13.	Mansiben J. Gamit	II	MJG	A	MJG	A	MJG	MJG	MJG	A	A	MJG	MJG	MJG
14.	Sharanbhai G. Gamit	II	S	S	A	S	S	S	A	S	S	S	A	S
15.	Swetakumari K. Gamit	II	S.K.G	S.K.G	S.K.G	A	S.K.G	S.K.G	S.K.G	S.K.G	A	S.K.G	S.K.G	A
16.	Khusikumari H. Gohil.	II	KHG	A	KHG	KHG	KHG	KHG	KHG	KHG	A	KHG	KHG	KHG
17.	Nidhi N. Kaklotar	II	N²	N²	N²	N²	A	A	N²	N²	N²	N²	N²	N²
18.	Maulikbhai B. Nakum.	II	M.B.N	M.B.N	A	M.B.N	M.B.N	M.B.N	M.B.N	A	M.B.N	M.B.N	M.B.N	M.B.N
19.	Divyakumari R. Patel	II	DRP	A	DRP	DRP	DRP	DRP	DRP	DRP	DRP	DRP	A	DRP
20.	Krishnaben N. Patel	II	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	A	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P
21.	Ravi R. Patel.	II	R.R.P	R.R.P	A	R.R.P	R.R.P	R.R.P	R.R.P	R.R.P	R.R.P	A	R.R.P	R.R.P
22.	Tanvi J. Patel	II	J.J.P	A	J.J.P	J.J.P	J.J.P	J.J.P	J.J.P	A	J.J.P	J.J.P	J.J.P	J.J.P
23.	Vatsal M. Patel	II	V.M.P	V.M.P	V.M.P	A	V.M.P	V.M.P	V.M.P	V.M.P	V.M.P	A	V.M.P	V.M.P
24.	Vishalkumar S. Patel	II	V.S.P	V.S.P	A	V.S.P	V.S.P	V.S.P	V.S.P	A	V.S.P	V.S.P	V.S.P	V.S.P
25.	Yashashvi D. Patel	II	Y.D.P	Y.D.P	Y.D.P	A	Y.D.P	Y.D.P	Y.D.P	Y.D.P	Y.D.P	A	Y.D.P	Y.D.P
26.	Yashvi R. Patel	II	Y.R.P	Y.R.P	Y.R.P	Y.R.P	A	Y.R.P	Y.R.P	Y.R.P	Y.R.P	A	Y.R.P	Y.R.P
27.	Yukti A. Patel.	II	A	Y.A.P	Y.A.P	A	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	A	Y.A.P
28.	Tulsiben D. Prajapati	II	T.D.P	T.D.P	T.D.P	T.D.P	A	T.D.P	T.D.P	A	T.D.P	T.D.P	T.D.P	T.D.P
29.	Saiyad M. Saiyed.	II	S.M.S	A	A	S.M.S	S.M.S	S.M.S	S.M.S	S.M.S	A	S.M.S	S.M.S	S.M.S
30.	Ankita R. Solanki	II	A.R.S	A.R.S	A.R.S	A.R.S	A	A.R.S	A.R.S	A.R.S	A.R.S	A	A.R.S	A.R.S
31.	Trupti V. Thakor	II	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti
32.	Mitulikumari S. Vanath	II	V.M.C	A	V.M.C	V.M.C	A	V.M.C	V.M.C	V.M.C	V.M.C	A	V.M.C	V.M.C
33.	Jayaben G. vasava.	II	J	J	A	J	J	J	J	A	J	J	J	A
34.	Nehal P. vasava	II	A	N	N	N	N	A	N	N	N	N	A	N
35.	Ruturaj A. vasava.	II	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V

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

Sign. of Teacher/Lab In-charge

NSI NSI NSI NSI NSI NSI NSI NSI NSI NSI NSI NSI

VANKAL TA. MANGROL DIST. SURAT

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

Date of Practicals taken

10/8/21	11/8/21	12/8/21	13/8/21	14/8/21	17/8/21	18/8/21	20/8/21	21/8/21	23/8/21	24/8/21	25/8/21	26/8/21	27/8/21 No. of extra practicals attended	28/8/21 Total no. of practicals	31/8/21 Whether journal certified for the term/year	1/9/21 Remarks	2/9/21
13	14	15	16	17	18	19	20	21	22	23	24	25					
(A)	(A)	(A)	A	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	A	(A)	(A)	(A)	(A)
D.mc	A	D.mc	D.mc	D.mc	D.mc	A	D.mc	D.mc	D.mc	A	D.mc	D.mc	D.mc	A	D.mc	A	D.mc
(F)	(F)	(F)	A	(F)	(F)	(F)	(F)	(F)	A	(F)	(F)	(F)	(F)	(F)	A	(F)	(F)
A	Kh	Kh	Kh	Kh	Kh	Kh	Kh	A	Kh	Kh	Kh	Kh	Kh	Kh	A	Kh	Kh
R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	R.S.C	A	R.S.C	R.S.C	R.S.C	A	R.S.C
R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C	R.N.C
U.J.C	U.J.C	U.J.C	U.J.C	U.J.C	A	U.J.C	U.J.C	U.J.C	U.J.C	U.J.C	A	U.J.C	U.J.C	U.J.C	U.J.C	A	U.J.C
V.H.C	V.H.C	V.H.C	V.H.C	A	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	V.H.C	A	V.H.C
Mistri	Mistri	A	Mistri	Mistri	Mistri	Mistri	Mistri	Mistri	Mistri	Mistri	Mistri	Mistri	A	Mistri	Mistri	Mistri	Mistri
(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	A	(N)	(N)	(N)	(N)	(N)	A	(N)	(N)	(N)
H.A.Gamit	H.A.Gamit	H.A.Gamit	H.A.Gamit	H.A.Gamit	A	H.A.Gamit	H.A.Gamit	H.A.Gamit	H.A.Gamit	H.A.Gamit	H.A.Gamit	A	H.A.Gamit	H.A.Gamit	H.A.Gamit	H.A.Gamit	A
D.Gamit	A	D.Gamit	D.Gamit	D.Gamit	D.Gamit	D.Gamit	A	D.Gamit	D.Gamit	D.Gamit	D.Gamit	D.Gamit	D.Gamit	A	D.Gamit	D.Gamit	D.Gamit
(M)	(M)	(M)	A	(M)	(M)	(M)	A	(M)	(M)	(M)	A	(M)	(M)	(M)	(M)	(M)	A
(S)	A	(S)	(S)	(S)	A	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
S.K.Gamit	S.K.Gamit	S.K.Gamit	S.K.Gamit	S.K.Gamit	A	S.K.Gamit	S.K.Gamit	S.K.Gamit	S.K.Gamit	A	S.K.Gamit	S.K.Gamit	S.K.Gamit	A	S.K.Gamit	S.K.Gamit	S.K.Gamit
Dha	Dha	Dha	Dha	Dha	Dha	Dha	Dha	A	Dha	Dha	Dha	Dha	Dha	Dha	Dha	Dha	Dha
(N²)	(N²)	A	(N²)	(N²)	(N²)	(N²)	(N²)	(N²)	(N²)	(N²)	(N²)	(N²)	(N²)	A	(N²)	(N²)	(N²)
M.B.J	M.B.J	M.B.J	M.B.J	A	M.B.J	M.B.J	M.B.J	M.B.J	M.B.J	M.B.J	M.B.J	M.B.J	A	M.B.J	M.B.J	M.B.J	M.J.
DRP	DRP	DRP	DRP	DRP	DRP	DRP	DRP	DRP	DRP	DRP	A	DRP	DRP	A	DRP	DRP	DRP
K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	A	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P	K.N.P
R patel	R patel	A	R patel	R patel	R patel	R patel	R patel	R patel	R patel	A	R patel	R patel	R patel	R patel	R patel	R patel	R patel
D patel	D patel	D patel	D patel	A	D patel	D patel	D patel	D patel	D patel	D patel	D patel	D patel	D patel	D patel	D patel	A	D patel
Vyf	A	Vyf	Vyf	Vyf	A	Vyf	Vyf	Vyf	Vyf	Vyf	Vyf	Vyf	A	Vyf	Vyf	A	Vyf
V.S.P	V.S.P	V.S.P	V.S.P	V.S.P	V.S.P	V.S.P	A	V.S.P	V.S.P	V.S.P	V.S.P	V.S.P	V.S.P	V.S.P	A	V.S.P	V.S.P
(Y)	(Y)	(Y)	(Y)	(Y)	A	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	A	(Y)	(Y)	(Y)	(Y)
Patel	Patel	Patel	Patel	A	Patel	Patel	Patel	Patel	Patel	Patel	Patel	Patel	Patel	A	Patel	Patel	A
Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	A	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	Y.A.P	A	Y.A.P	Y.A.P	Y.A.P
DP	A	DP	DP	DP	DP	DP	DP	DP	DP	DP	DP	DP	A	DP	DP	A	DP
(R)	(R)	(R)	(R)	(R)	(R)	A	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	A	
(R)	(R)	(R)	(R)	(R)	(R)	(R)	A	(R)	(R)	(R)	(R)	(R)	(R)	(R)	A	(R)	(R)
Trupti	Trupti	Trupti	Trupti	Trupti	A	Trupti	Trupti	Trupti	Trupti	Trupti	Trupti	A	Trupti	Trupti	A	Trupti	Trupti
V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me	V.me
J	J	A	J	J	J	J	J	J	A	J	J	J	J	J	A	J	J
A	(RD)	(RD)	(RD)	(RD)	(RD)	A	(RD)	(RD)	(RD)	(RD)	(RD)	(RD)	(RD)	A	(RD)	(RD)	A
RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV	RAV
NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	

GOVERNMENT SCIENCE COLLEGE,

Class:_____ Semester:_____ Division:_____

Batch No:_____ Date of Practicals taken

Roll No.	Name of the Student	Group/ Subject	26/7/21	27/7/21	28/7/21	29/7/21	30/7/21	31/7/21	2/8/21	3/8/21	4/8/21	5/8/21	6/8/21	7/8/21
			1	2	3	4	5	6	7	8	9	10	11	12
1.	Anjaliben S. Chaudhari	S.Y. Micro												
2.	Bhargavbhai R. Chaudhari	"												
3.	Harshidaben S. Chaudhari	"	A										A	
4.	Hemanshiben S. Chaudhari	"							A					
5.	Jagrutiben R. Chaudhari	"												A
6.	Jaydeepkumar V. Chaudhari	"			A									
7.	Jinalkumari D. Chaudhari	"									A			
8.	Komalkumari P. Chaudhari	"			A		A							
9.	Mukundkumar K. Chaudhari	"						A						
10.	Nikitaben M. Chaudhari	"						A						
11.	Pujaben S. Chaudhari	"		A										
12.	Roshniben R. Chaudhari	"									A			
13.	Roshnikumari B. Chaudhari	"					A						A	
14.	Simixaben R. Chaudhari	"			A									
15.	Shreyaben D. Chaudhari	"							A					
16.	Vikeshkumar R. Chaudhari	"	A											
17.	Vivekbhai B. Chaudhari	"												A
18.	Ishani J. Dadiya	"					A							
19.	Mitulkumar V. Gamit	"				A					A		A	
20.	Vishalbhai A. Gamit	"	A											
21.	Nehaben D. Padher	"							A					
22.	Hiralkumari R. Panchal	"												A
23.	Komal S. Panchal	"	A											
24.	Krishnaben N. Panchal	"				A				A				
25.	Ishitakumari K. Parmar	"	A											
26.	Artiben M. Patel	"						A						
27.	Komal N. Patel	"				A							A	
28.	Krutikumari H. Patel	"									A			
29.	Manshikumari J. Patel	"												
30.	Mansiben M. Patel	"			A									
31.	Prinseekumari A. Patel	"							A					
32.	Saloni D. Patel	"										A		
33.	Surabhibahen H. Patel	"				A								
34.	Unnati H. Patel	"									A			
35.	Tajyababanu M. Shaikh	"			A									
36.	Bhumikaben R. Vasava	"	A		A						A			
37.	Kinjalben G. Vasava	"	K.G.V	K.G.V	K.G.V	K.G.V	A	K.G.V	A	K.G.V	K.G.V	K.G.V	K.G.V	K.G.V
38.	Meghakumari A. Vasava	"		A										
39.	Parthbhai V. Vasava	"	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	A	R.R.V	R.R.V
40.	Rushaben R. Vasava	"	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	A	S.R.V	S.R.V	S.R.V	S.R.V	A
	Aim or Details of the Practical / Exercise perfomed on the said date													
	Sign. of Teacher/Lab In-charge		NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV

VANKAL TA. MANGROL DIST. SURAT

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

Date of Practicals taken

10/8/21 13	11/8/21 14	12/8/21 15	13/8/21 16	14/8/21 17	17/8/21 18	18/8/21 19	20/8/21 20	21/8/21 21	23/8/21 22	24/8/21 23	25/8/21 24	26/8/21 25	27/8/21 No. of extra practicals attended	28/8/21 Total no. of practicals	31/8/21 Whether journal certified for the term/ year	1/9/21 Remarks	2/9/21
Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy	Adhy
BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
Rasid	Rasid	Rasid	Rasid	Rasid	A	Rasid	Rasid	Rasid	Rasid	Rasid	Rasid	Rasid	Rasid	Rasid	A	Rasid	Rasid
Himee	Himee	Himee	Himee	Himee	Himee	Himee	A	Himee	Himee	Himee	Himee	Himee	A	Himee	Himee	Himee	A
Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs	Pdhs
Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh	Padh
Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal	Jinal
KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	A	KP	KP	A	KP	KP	A
mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel	mhel
NMo	NMo	NMo	NMo	NMo	NMo	NMo	NMo	A	NMo	NMo	NMo	NMo	NMo	NMo	A	NMo	NMo
Phm	Phm	Phm	Phm	Phm	A	Phm	Phm	Phm	Phm	Phm	Phm	Phm	A	Phm	Phm	A	Phm
R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	R.RC	RRC
Roshni	Roshni	Roshni	Roshni	Roshni	Roshni	A	Roshni	Roshni	Roshni	Roshni	Roshni	Roshni	Roshni	Roshni	Roshni	Roshni	Roshni
Sley	Sley	Sley	Sley	Sley	A	Sley	Sley	Sley	Sley	Sley	A	Sley	Sley	Sley	Sley	Sley	A
Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs	Sdhs
VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy	JShy
Namrata	Namrata	Namrata	A	Namrata	Namrata	Namrata	Namrata	Namrata	Namrata	A	Namrata	Namrata	Namrata	Namrata	Namrata	A	Namrata
VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal	Fal
Krishma	Krishma	A	Krishma	Krishma	Krishma	Krishma	Krishma	Krishma	A	Krishma	Krishma	Krishma	Krishma	Krishma	Krishma	Krishma	Krishma
R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
DKPas	DKPas	DKPas	DKPas	A	DKPas	DKPas	DKPas	A	DKPas	DKPas	DKPas	DKPas	A	DKPas	DKPas	DKPas	DKPas
Rupatel	A	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel	A	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel	Rupatel
ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH
Manshi	Manshi	A	Manshi	Manshi	Manshi	Manshi	Manshi	A	Manshi	Manshi	Manshi	Manshi	Manshi	Manshi	Manshi	A	Manshi
R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs	P.PPs
S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.Pas	S.P.Pas	S.Pas	S.P.Pas	S.P.Pas
Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat	Spat
Unati	Unati	Unati	A	Unati	Unati	Unati	A	Unati	Unati	Unati	A	Unati	Unati	Unati	Unati	Unati	Unati
Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	Mshaikh	A	Mshaikh	Mshaikh	A
[illegible]	[illegible]	A	[illegible]	[illegible]	[illegible]	A	[illegible]	[illegible]	[illegible]	A	[illegible]	[illegible]	[illegible]	A	[illegible]	[illegible]	[illegible]
K.G.V	K.G.V	A	K.G.V	A	K.G.V	K.G.V	K.G.V	A	K.G.V	K.G.V	K.G.V	A	K.G.V	K.G.V	K.G.V	K.G.V	K.G.V
neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges	neges
A	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V
S.R.V	A	S.R.V	A	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V	S.R.V
NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	

GOVERNMENT SCIENCE COLLEGE,

Class:_____ Semester:_____ Division:_____

Batch No:_____ Date of Practicals taken

Roll No.	Name of the Student	Group/ Subject	26/7/21	27/7/21	28/7/21	29/7/21	30/7/21	31/7/21	2/8/21	3/8/21	4/8/21	5/8/21	6/8/21	7/8/21
			1	2	3	4	5	6	7	8	9	10	11	12
41	Sharuben R. Vasava	S.Y. Micro F.	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV
1.	Anushka A. chaudhari	F.Y. Micro	A	A	A	A	A	A	A	A	A	A	A	A
2.	Arti N. Chaudhari	"	A	A	A	A	A	A	A	A	A	A	A	A
3.	Bheerti N. Chaudhari	"	B	B	B	A	B	B	B	B	B	B	B	B
4.	Elisha M. Chaudhari	"	Ey	Ey	Ey	Ey	Ey	A	Ey	Ey	Ey	Ey	Ey	Ey
5	Harshal V Chaudhari	"	H.V.C	H.V.C	H.V.C	A	H.V.C	H.V.C	H.V.C	A	H.V.C	H.V.C	H.V.C	H.V.C
6	Khushbu J Chaudhari	"	Chy	Chy	Chy	Chy	A	Chy	Chy	Chy	Chy	Chy	Chy	Chy
7	Krutika J Chaudhari	"	Cy	A	Cy	Cy	Cy	Cy	Cy	A	Cy	Cy	Cy	Cy
8	Mahima CR Chaudhari	"	Mahi	Mahi	Mahi	Mahi	A	Mahi	Mahi	Mahi	Mahi	Mahi	A	Mahi
9	Mayuri CR Chaudhari	"	Mhi	Mhi	Mhi	Mhi	A	Mhi	Mhi	Mhi	Mhi	Mhi	Mhi	Mhi
10	Megha S. Chaudhari	"	Mchary	Mchary	Mchary	Mchary	Mchary	Mchary	Mchary	Mchary	A	Mchary	Mchary	Mchary
11	Mihir A. Chaudhari	"	Mehr	Mehr	Mehr	Mehr	A	Mehr	Mehr	Mehr	Mehr	Mehr	Mehr	Mehr
12	Neha R Chaudhari	"	Neha	A	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
13	Nitesh S Chaudhari	"	NSch	NSch	NSch	NSch	NSch	NSch	NSch	NSch	NSch	A	NSch	NSch
14	Nirmala R Chaudhari	"	CR	CR	CR	A	CR	CR	CR	CR	CR	CR	CR	CR
15	Payal D Chaudhari	"	P.D.C	P.D.C	P.D.C	P.D.C	A	P.D.C	P.D.C	P.D.C	P.D.C	A	P.D.C	P.D.C
16	Priyanshi B. Chaudhari	"	Pri	Pri	Pri	Pri	Pri	Pri	Pri	Pri	A	Pri	Pri	Pri
17	Reshni B Chaudhari	"	Ch	A	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch
18	Shruti M Chaudhari	"	SMC	SMC	SMC	SMC	SMC	SMC	SMC	A	SMC	SMC	SMC	SMC
19	Shruti N Chaudhari	"	Chaudhary	Chaudhary	Chaudhary	A	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary	Chaudhary
20	Siya A Chaudhari	"	C.S.A	C.S.A	A	C.S.A	C.S.A	A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A
21	Sneha D. Chaudhari	"	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra	A	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra	S.P Chy Sumitra
22	Sumitra N Chaudhari	"	A	A	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra
23	Tejashwini K Chaudhari	"	Chi	Chi	Chi	Chi	A	Chi	Chi	Chi	A	Chi	Chi	Chi
24	Unnati V Chaudhari	"	Chy	Chy	A	Chy	Chy	Chy	Chy	Chy	Chy	Chy	Chy	Chy
25	Unnati J Chaudhari	"	Chi	Chi	Chi	Chi	Chi	Chi	Chi	A	Chi	Chi	Chi	Chi
26	Nivati V Dhoom	"	Dhoom Nivati	A	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	Dhoom Nivati	A
27	Bhumika CR Gramit	"	B.G.	A	B.G	B.G	B.G	B.G	A	B.G	B.G	B.G	B.G	B.G
28	Jaydip CR Gramit	"	Ch	Ch	Ch	Ch	A	Ch	Ch	Ch	Ch	A	Ch	Ch
29	Vaidehi M. Gramit	"	V.M.G	V.M.G	V.M.G	A	V.M.G	V.M.G	V.M.G	V.M.G	V.M.G	A	V.M.G	V.M.G
30	Zankhana R Gramit	"	Zankhana	A	Zankhana	Zankhana	Zankhana	Zankhana	Zankhana	Zankhana	Zankhana	Zankhana	Zankhana	A
31	Disha P Makwana	"	D.P.M	D.P.M	D.P.M	A	D.P.M	A	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M
32	Nazmin M. Mistri	"	N	A	N	N	N	N	A	N	N	N	N	N
33	Sana A Mulla	"	Sana	Sana	Sana	Sana	Sana	Sana	A	Sana	Sana	Sana	Sana	A
34	Mariya A. Nargat	"	M	A	M	M	M	M	M	M	M	M	M	M
35	Vinesh V Pandvi	"	VNP	V.N.P	V.N.P	V.N.P	A	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	A	V.N.P
36	Dhruvi H Patel	"	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P
37	Jineel A Patel	"	P.J.A	P.J.A	A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A
38	Khushbu K Patel	"	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	A	K.K.P
	Aim or Details of the Practical / Exercise perfomed on the said date													
	Sign. of Teacher/Lab In-charge		NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV	NSV

VANKAL TA. MANGROL DIST. SURAT

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

Date of Practicals taken

	10/8/21	11/8/21	12/8/21	13/8/21	14/8/21	17/8/21	18/8/21	20/8/21	21/8/21	23/8/21	24/8/21	25/8/21	26/8/21	No. of extra practicals attended	Total no. of practicals	Whether journal certified for the term/ year	Remarks	
	13	14	15	16	17	18	19	20	21	22	23	24	25	27/8/21	28/8/21	31/8/21	1/9/21	29/1/21
41	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	SRV	
2																		
3	AM	AM	AM	AM	AM	AM	AM	A	AM	AM	AM	AM	AM	A	AM	AM	AM	A
4	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
5	BR	BR	BR	BR	BR	A	BR	BR	BR	BR	BR	BR	A	BR	BR	BR	BR	B
6	Coy	A	Coy	Coy	Coy	Coy	Coy	Coy	A	Coy	Coy	Coy	Coy	A	Coy	Coy	Coy	
7	H.V.C	A	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	H.V.C	A
8	Chrysthi	Chrysthi	A	Chrysthi	Chrysthi	Chrysthi	Chrysthi	Chrysthi	Chrysthi	A	Chrysthi	Chrysthi	Chrysthi	Chrysthi	Chrysthi	Chrysthi	Chrysthi	Chrysthi
9	Roy	Roy	Roy	Roy	Roy	Roy	A	Roy	Roy	Roy	Roy	Roy	Roy	Roy	A	Roy	Roy	A
10	Mky	A	Mky	Mky	Mky	Mky	Mky	Mky	Mky	Mky	Mky	Mky	Mky	A	Mky	Mky	Mky	Mky
11	Mky	Mky	Mky	A	Mky	Mky	Mky	Mky	Mky	A	Mky	Mky	Mky	Mky	A	Mky	Mky	Mky
12	Chavan	Chavan	A	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	A	Chavan	Chavan	Chavan	Chavan	A	Chavan	Chavan	Chavan
13	Mehra	Mehra	Mehra	Mehra	Mehra	A	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	A
14	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	Mehra	A	Mehra	Mehra	Mehra	Mehra	A	Mehra	Mehra	Mehra	Mehra
15	N.S.dr	N.S.dr	A	N.S.dr	N.S.dr	N.S.dr	A	N.S.dr	N.S.dr	N.S.dr	N.S.dr	N.S.dr	A	N.S.dr	N.S.dr	N.S.dr	A	N.S.dr
16	A	DR	DR	DR	DR	DR	DR	DR	A	DR	DR	DR	DR	DR	A	DR	DR	DR
17	P.D.C	P.D.C	P.D.C	P.D.C	P.D.C	A	P.D.C	P.D.C	P.D.C	P.D.C	P.D.C	P.D.C	P.D.C	P.D.C	P.D.C	A	P.D.C	P.D.C
18	Psi	Psi	A	Psi	Psi	Psi	Psi	A	Psi	Psi	Psi	Psi	Psi	Psi	A	Psi	Psi	Psi
19	R	R	R	R	R	A	R	R	R	R	R	R	A	R	R	R	R	R
20	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	SMC	A	SMC	SMC
21	Schavan	Schavan	Schavan	Schavan	Schavan	A	Schavan	Schavan	Schavan	Schavan	Schavan	Schavan	Schavan	A	Schavan	Schavan	Schavan	
22	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A	A	C.S.A	C.S.A	C.S.A	C.S.A	C.S.A
23	S.P. Chey	A	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	S.P. Chey	A	S.P. Chey
24	Sumitra	Sumitra	Sumitra	Sumitra	A	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	Sumitra	A	Sumitra	Sumitra	Sumitra	Sumitra	A
25	Bli	Bli	Bli	Bli	Bli	Bli	Bli	Bli	A	Bli	Bli	Bli	Bli	A	Bli	Bli	Bli	Bli
26	Wy	Wy	Wy	Wy	Wy	A	Wy	Wy	Wy	Wy	Wy	Wy	Wy	Wy	Wy	Wy	A	Wy
27	Wri	Wri	A	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri	Wri
28	A	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	A	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	Bhavsar N.V	A
29	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G	B.G
30	Ch	Ch	Ch	Ch	A	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	A	Ch	Ch	Ch	Ch
31	V.M.G	V.M.G	V.M.G	V.M.G	V.M.G	V.M.G	A	V.M.G	V.M.G	V.M.G	V.M.G	V.M.G	V.M.G	V.M.G	A	V.M.G	V.M.G	V.M.G
32	A	Zamit	Zamit	Zamit	Zamit	Zamit	Zamit	Zamit	Zamit	Zamit	A	Zamit	Zamit	Zamit	Zamit	Zamit	A	A
33	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M	A	D.P.M	D.P.M	D.P.M	D.P.M	D.P.M	A	D.P.M	D.P.M	A
34	N	N	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N	
35	Bm	Bm	Bm	Bm	Bm	Bm	A	A	A	Bm	Bm	Bm	Bm	Bm	A	Bm	Bm	Bm
36	NB	A	NB	NB	NB	NB	NB	NB	NB	NB	A	NB	NB	NB	NB	NB	NB	A
37	V.N.P	V.N.P	V.N.P	A	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	V.N.P	A	V.N.P	V.N.P	V.N.P
38	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	A	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	D.H.P	A	D.H.P
39	A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	P.J.A	A	P.J.A	A
40	K.K.P	K.K.P	K.K.P	K.K.P	A	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P	A	K.K.P	K.K.P	K.K.P	K.K.P	K.K.P

NST NST NST NST NST NST NST NST NST NST NST NST NST NST NST NST

GOVERNMENT SCIENCE COLLEGE,

Subject/Paper: __________ Class & Semester: __________ Division: ____

Roll No.	Name of the Student	Group/ Subject	Date of Lectures taken										
			26/7/21	27/7/21	28/7/21	29/7/21	30/7/21	31/7/21	2/8/21	3/8/21	4/8/21	5/8/21	6/8/21
			1	2	3	4	5	6	7	8	9	10	11
39	Khushi P. Patel	FY. Micro	Khushi	Khusi	Khi	Khu	Khus	Khu	Khu	KPS	Khus	KPu	Khus
40	Khushi R. Patel	"	K.R.P	KRP	K.R.P	K.R.P	K.R.P	K.R.P	K.R.P	K.R.P.	K.R.P	K.R.P	K.R.P.
41	Riya M. Patel	"	Riya	Riya	Rm	Riya	[illegible]	[illegible]	Rm	Riya	Rv	Riya	Rm
42	Shreya V. Patel	"	A	S.U.P	S.U.P	S.U.P	S.U.P	S.U.P	S.P	S.U.P	S.U.P	S.U.P	A
43	Vishva A. Patel	"	Vim	Vim	Vim	A	Vim	Vip	Vim	Vim	Vim	Vim	Vim
44	Priyanshi D. Piludariya	"	PD	PD	PD	PD	PD	PD	A	PD	A	PD	PD.
45	Chaitali S. Prajapati	"	CSP	A	CSP	CSP	CSP	CSP	CSP	CSP	CSP	A	CSP
46	Sneha N. Rand	"	[illegible]	Sk	Sk	Sk	Sk	Sk	Sk	Ska	Ska	Ske	Sk
47.	Vishakha P. Solanki	"	VS	VS	A	VS	VS	VS	VS	VS	VS	VS	A
48.	Sonal I. Valvi	"	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V	S.I.V
49.	Apexa V. Vasava	"	AV	AV	AV	AV	AV	AV	AV	AV	AV	A	AV
50	Kinjal A. Vasava	"	[illegible]	Ka	Ka	Ka	Ka	A	Ka	Ka	K	K	K
51	Kiran N. Vasava	"	KN	KN	KN	A	KN	KN	KN	KN	KN	KN	A
52.	Pratik M. Vasava	"	PR	PR	PR	PR	PR	PR	PR	A	PR	PR	PR
53.	Riya M. Vasava	"	A	RMV	RMV	RMV	RMV	RMV	RMV	RMV	RMV	A	RMV
54.	Sweety S. Vasava	"	Sweety	Sweety	Sweety	Sweety	Sweety	Sweety	Sweety	Sweety	Sweety	Sweety	Sweety
Name of the Chapter/Topic tought during the Lecture													
Sign. of Teacher In-charge			NST	NST	NST	NST	NST	NST	NST	NST	NST	NST	NST

VANKAL TA. MANGROL DIST. SURAT

Roll Call Register for the Lectures of the 1st / 2nd Term Month_____ Year_____

Date of Lectures taken

	7/8/21	10/8/21	11/8/21	12/8/21	13/8/21	14/8/21	17/8/21	18/8/21	20/8/21	21/8/21	23/8/21	24/8/21	25/8/21	26/8/21	27/8/21	28/8/21 Total Presence	31/8/21 Remarks	1/9/21	2/9/21
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
39										A									
40	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	K.R.P.	A	K.R.P.	K.R.P.	K.R.P.	K.R.P.		K.R.P.	
41					A			A					A			A			
42	A	A	SUP	S.U.P	S.U.P	S.U.P	S.V.P	S.V.P	S.U.P	S.V.P	S.V.P	S.V.P	S.V.P	S.V.P	S.V.P	S.V.P		S.V.P	
43								A											
44																			
45		A																	
46			A					A						A					
47																			
48	S.L.V	S.L.V	A	S.L.V	S.L.V	S.L.V	A	S.L.V	S.L.V	S.L.V	S.L.V	S.L.V	A	S.L.V	A	S.L.V		S.L.V	
49																			
50																			
51	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	A	A	K.M.	K.M.	K.M.		K.M.	
52	P.R.	P.R.	P.R.	P.R.	P.R.	P.R.	P.R.	P.R.	P.R.	P.R.	A	P.R.	P.R.	P.R.	P.R.	P.R.		P.R.	
53	R.M.V.	R.M.V.	R.M.V.	R.M.V.	A	R.M.V.	R.M.V.	R.M.V.	R.M.V.	R.M.V.	R.M.V.	R.M.V.	R.M.V.	R.M.V.	A	R.M.V.		R.M.V.	
54	Society	Society	Society	Society	Society	Society	A	Society	A	Society	Society	Society	Society	Society	A	Society		A	

NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN NSN

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	Topic	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	Topic	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	Topic	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	Topic	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

सत्यमेव जयते
Government of Gujarat

GOVERNMENT SCIENCE COLLEGE, VANKAL

DEPARTMENT OF MICROBIOLOGY

Sr. No. SCTMB05/2021-22/01 **Date: 06/09/2021**

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

Principal **Course Coordinator** **Head of the Department**

सत्यमेव जयते
Government of Gujarat

GOVERNMENT SCIENCE COLLEGE, VANKAL

DEPARTMENT OF MICROBIOLOGY

Sr. No. SCTMB05/2021-22/15 **Date: 06/09/2021**

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

Principal **Course Coordinator** **Head of the Department**

सत्यमेव जयते
Government of Gujarat

GOVERNMENT SCIENCE COLLEGE, VANKAL

DEPARTMENT OF MICROBIOLOGY

Sr. No. SCTMB05/2021-22/34 **Date: 06/09/2021**

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

Principal **Course Coordinator** **Head of the Department**

सत्यमेव जयते
Government of Gujarat

GOVERNMENT SCIENCE COLLEGE, VANKAL

DEPARTMENT OF MICROBIOLOGY

Sr. No. SCTMB05/2021-22/26 **Date: 06/09/2021**

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

Principal **Course Coordinator** **Head of the Department**

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Government of Gujarat

GOVERNMENT SCIENCE COLLEGE, VANKAL

DEPARTMENT OF MICROBIOLOGY

Sr. No. SCTMB05/2021-22/02 **Date: 06/09/2021**

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

Principal **Course Coordinator** **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. What are biofertilizers primarily used for?
A) Enhancing soil fertility through synthetic chemicals B) Improving plant health by increasing nutrient availability
C) Controlling pests D) Reducing plant diseases

2. Which of the following is a common type of biofertilizer?
A) Rhizobium B) Bacillus thuringiensis C) Glyphosate D) Urea

3. What is the primary function of Rhizobium in biofertilizers?
A) Fixing nitrogen in the soil B) Decomposing organic matter
C) Enhancing phosphorus availability D) Suppressing weed growth

4. Which biofertilizer is known for enhancing phosphorus availability to plants?
A) Mycorrhizae B) Azotobacter C) Cyanobacteria D) Trichoderma

5. Which of the following is NOT a type of biofertilizer?
A) Azospirillum B) Frankia C) Trichoderma D) Chlorpyrifos

6. Which group of microorganisms is often used as biofertilizers to fix atmospheric nitrogen?
A) Bacteria B) Fungi C) Algae D) Virus

7. Which plant is commonly associated with the biofertilizer mycorrhizae?
A) Legumes B) Cereal grains C) Tomatoes D) Potatoes

8. Azotobacter is a type of biofertilizer that is particularly effective in which environment?
A) Acidic soils B) Alkaline soils C) Waterlogged soils D) Saline soils

9. Which biofertilizer is especially beneficial for enhancing soil organic matter?
A) Nitrogen-fixing bacteria B) Compost C) Mycorrhizae D) Seaweed extract

10. Which microorganism is used in the production of biofertilizer to decompose organic matter and release nutrients?
A) Azospirillum B) Rhizobium C) Trichoderma D) Bacillus subtilis

11. What are biopesticides used for?
A) Enhancing soil fertility B) Controlling pest populations
C) Promoting plant growth D) Increasing water retention

12. Which of the following is a well-known biopesticide that targets insects?
A) Bacillus thuringiensis (Bt) B) Glomus spp. C) Azotobacter D) Rhizobium

13. Which biopesticide is a fungal agent that is effective against various plant diseases?
A) Beauveria bassiana B) Trichoderma spp. C) Pseudomonas fluorescens D) Aspergillus niger

14. What is the main target of the biopesticide Bacillus 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 C) Spinosad D) Chlorantraniliprole

17. Which biopesticide acts by disrupting the development of insect larvae?

A) Bt toxin B) Baculovirus C) Insect parasitic nematodes 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) Pyrethrin 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 B) Foliar spraying C) Deep plowing D) Overhead irrigation

Government Science College

OMR ANSWER SHEET

EXAMINATION : Short-term course 2021-22 (STC-5)
SUBJECT : Biofertilizer & Biopesticides
EXAM CENTER : Government Science college, Vankal
DATE : / /

Name : Archanakumari R.chaudhari

44/50

NST

Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER
1	A ● C D	11	A ● C D	21	A ● C D	31	A B C D	41	A B C D
2	● B C D	12	● B C D	22	● B C D	32	A B C D	42	A B C D
3	A B ● D	13	A ● C D	23	A B ● D	33	A B C D	43	A B C D
4	● B C D	14	A B ● D	24	A B ● D	34	A B C D	44	A B C D
5	A B C ●	15	A B C ●	25	A ● C D	35	A B C D	45	A B C D
6	A B ● D	16	● B C D	26	A B C D	36	A B C D	46	A B C D
7	A ● C D	17	A ● C D	27	A B C D	37	A B C D	47	A B C D
8	A ● C D	18	A B C ●	28	A B C D	38	A B C D	48	A B C D
9	A ● C D	19	● B C D	29	A B C D	39	A B C D	49	A B C D
10	A B ● D	20	A ● C D	30	A B C D	40	A B C D	50	A B C D

Government Science College

OMR ANSWER SHEET

EXAMINATION : Short term course 2021-22 (STC-5)
SUBJECT : Biofertilizer & Biopesticide
EXAM CENTER : Government Science college, Vankal.
DATE : / /

Name :- Nehal P. Vasava.

42/50

NST

Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER
1	A ● C D	11	A ● C D	21	A ● C D	31	A B C D	41	A B C D
2	● B C D	12	A B ● D	22	A B ● D	32	A B C D	42	A B C D
3	● B C D	13	A ● C D	23	● B C D	33	A B C D	43	A B C D
4	● B C D	14	A B ● D	24	A B ● D	34	A B C D	44	A B C D
5	A B C ●	15	A B C ●	25	A ● C D	35	A B C D	45	A B C D
6	A ● C D	16	A B ● D	26	A B C D	36	A B C D	46	A B C D
7	A ● C D	17	A ● C D	27	A B C D	37	A B C D	47	A B C D
8	A ● C D	18	A B C ●	28	A B C D	38	A B C D	48	A B C D
9	A ● C D	19	● B C D	29	A B C D	39	A B C D	49	A B C D
10	A B ● D	20	A ● C D	30	A B C D	40	A B C D	50	A B C D

Government Science College

OMR ANSWER SHEET

EXAMINATION : Short-term Course - 2021-22 (STC-5)
SUBJECT : Biofertilizer & Biopesticide
EXAM CENTER : Government Science College, Vankal
DATE : / /

Name : Swetukumari K. Gamit

42/50

NST.

Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER
1	A ● C D	11	A ● C D	21	A ● C D	31	A B C D	41	A B C D
2	● B C D	12	● B C D	22	● B C D	32	A B C D	42	A B C D
3	● B C D	13	A B ● D	23	A ● C D	33	A B C D	43	A B C D
4	● B C D	14	A B ● D	24	A B ● D	34	A B C D	44	A B C D
5	A B C ●	15	A B C ●	25	A ● C D	35	A B C D	45	A B C D
6	● B C D	16	● B C D	26	A B C D	36	A B C D	46	A B C D
7	A ● C D	17	● B C D	27	A B C D	37	A B C D	47	A B C D
8	● B C D	18	A B C ●	28	A B C D	38	A B C D	48	A B C D
9	A ● C D	19	● B C D	29	A B C D	39	A B C D	49	A B C D
10	A B ● D	20	A ● C D	30	A B C D	40	A B C D	50	A B C D

Government Science College

OMR ANSWER SHEET

EXAMINATION : short term cource 2021-22 (STC-5)

SUBJECT : Biofertilizer & Biopestiside

EXAM CENTER Government science college, vankal

DATE : / /

Name :- Yashvi R. Patel

38/50

NST

Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER
1	B	11	B	21	B	31	B	41	B
2	B	12	B	22	B	32	B	42	B
3	B	13	B	23	B	33	B	43	B
4	B	14	B	24	B	34	B	44	B
5	B	15	B	25	B	35	B	45	B
6	B	16	B	26	B	36	B	46	B
7	B	17	B	27	B	37	B	47	B
8	B	18	B	28	B	38	B	48	B
9	B	19	B	29	B	39	B	49	B
10	B	20	B	30	B	40	B	50	B

Government Science College

OMR ANSWER SHEET

EXAMINATION : Short term course 2021-22 (STC-S)

SUBJECT : Biofertilizer & Biopestiside

EXAM CENTER : Goverment Science college vankal

DATE : / /

Name:- Bhargav R Choudhari

38/50

NJZ

Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER	Q.	ANSWER
1	A B C ●	11	A ● C D	21	A ● C D	31	A B C D	41	A B C D
2	● B C D	12	A B C ●	22	● B C D	32	A B C D	42	A B C D
3	● B C D	13	A ● C D	23	● B C D	33	A B C D	43	A B C D
4	● B C D	14	A B ● D	24	● B C D	34	A B C D	44	A B C D
5	A B C ●	15	A B C ●	25	A B C ●	35	A B C D	45	A B C D
6	A B C ●	16	● B C D	26	A B C D	36	A B C D	46	A B C D
7	A ● C D	17	A ● C D	27	A B C D	37	A B C D	47	A B C D
8	A ● C D	18	● B C D	28	A B C D	38	A B C D	48	A B C D
9	A ● C D	19	● B C D	29	A B C D	39	A B C D	49	A B C D
10	A B ● D	20	A ● C D	30	A B C D	40	A B C D	50	A B C D