P. P. SAVANI UNIVERSITY

Third Semester of M.Sc. Examination December-2021

07.12.2021, Tuesday

SSBT8030- Agricultural Biotechnology Time: 09:00 p.m. to 11:30 p.m.

Maximum Marks: 60

1. 2.	tructions: The question paper comprises of two sections. Make suitable assumptions and draw neat figures wherever required. Use of scientific calculator is allowed.	-
Q.:	Section-I Very Short Questions (Attempt any five)	
1.1	Write role of photolysis in photosynthesis	[10]
1.2	Which region of light is to absorb by Chlorophyll-a & Chlorophyll ba	
1.3	Ellist flatural process which can fix nitrogen	
1.4	Define: heterocysts and its role	
1.5	amerent development zone in root	
1.6	Define phytoliormone	
0.2	Water of a second	
Q.2 2.1	The traces (recempt any two)	[06]
2.1	and the paintway along with all plochemical reactions	[oo]
2.3	and function of illtrate reductase	
2.3	explain periclinical and anticlinical division in root with suitable diagram	
Q.3	Detail questions (Attempt any two)	
3.1	short note on growth and development of leaf	[14]
3.2	Explain in detail about nodule formation.	
3.3	Give an account on Auxin biosynthesis and metabolism	
	y and metabolishi	
	Section-II	
Q.1	Very Short Questions (Attempt any five)	[10]
1.1	Give full form of RAPD & SSR marker	[10]
1.2	Explain cytological marker	
1.3	Define: Marker Assisted selection (MAS)	
1.4	Define: Gene pyramiding	
1.5	Differentiate gene and DNA marker	
1.0	Define: Polymorphism	
Q.2	Write Short Notes (Attempt any two)	
2.1	Short note on classification of markers	[06]
2.2	Short note on iron uptake through siderophore	
2.3	Differentiate Test cross and backcross	
	1 cot et ess and backet oss	
Q.3	Detail questions (Attempt any two)	
3.1	Define: marker. Give its classification and explain morphological cytological	[14]
3.2	Give account on BT crops	
3.3	Explain in details about "Rust disease"	