[92|95|105]

SARDAR PATEL UNIVERSITY

M.Sc. (III-SEMESTER) Examination (CBCS) M.Sc. Biochemistry/Biotechnology/Microbiology PS03EBIC214 PS03EBIT214 PS03EMIC214 PLANT BIOCHEMISTRY

Date: 05/01/2021, Tuesday	TOTAL MARK 70
TIME: 02:00 PM-04:00PM 1.(A) Choose the correct answer.	(1x8=8)
i. Passive, directional movement of molecules is part of the	process called
(a) free energy (b) Brownian movement (c) distussion	(d) lysis
:: The membrane around the vacuole is known as	A contract of the contract of
The second of the control of the con	plast
iii The quantum yield of oxygen evolution during photosy	nthesis drastically
I Bakt This offset is Known as	
(a) Far red drop (b) Red drop (c) Blue drop (d) Visible	spectrum drop
iv Hatch-Slack cycle takes place in	
(a) Mesophyll (c) Both a and b	to the state of t
(b) Bundle sheath (d) none	
were to Y down and any time	(A) Both h and c
(a) Cytoplasm (b) Leucoplast (c) Chloropiast	(a) Both b and c
m tit C	
(c) Aurin (h) Cytokinin (c) Gioucicius	(a) Ethylene
vii. Which one of the following is not a phenoloic compoun	(d) Cocaine
(a) Flavonoids (b) Anthocyanins (c) Lignin	to the second second
viii. Canavanine is an analog of (a) Arginine (b) Proline (c) Glycine	(d) None
(a) Arginine (b) Profile (c) Gryonic	
1 (B) Do as directed	(16)
1. (B) Do as directed i. The middle lamella is a layer which cements the cell walls	of two
adjoining plant cells together. True/False	
ii. Meristematic cells will have large vacuoles. True/False	
Carretian hannong through	
Transpiration is known as 'necessary evil'. I rue/Faise	
and the first containing and north policy and a	'tail'.
: In some plants leaves are purple due to the presence aitho	cyanins. True/raise
It was anotomy is associated with Ca plants. True/Paise	
(D. Ligos) is the first enzyme in Calvin-Benson cycle. III	le/Faise
	Truc/I also
The second of NA DDH is used as reducing agent for anim	Willa Syllehoots, x 2001 2 111
x. In chloroplast NADI II is used as readings ago. xi. The host plants signals its readiness to form nodules by e	Actoming 30 votat
as signal compounds.	e True/faise
!! Homonitenta le a component in tile collación de ma de sur la component de la collación de ma de sur la collación de la c	0. 1145, 1010,
xii. Casparian strip of root endodermis is formed of	
xiv. Glucosinolates are present in Brassicaceae. True/False	drug.
xv. Artemisnin is a sesquiterpenoid used asxvi. Condensed tannins are made up of	
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3. Define: water potential and explain three major factors influencing water potential of cell? OR 3. Write an account on plant cell wall. 4. Give an account of the mechanism of CO2 fixation, explain major steps and the end products in photosynthesis. OR 4. Explain the structural feature of chloroplast support the light reaction and describe the role of PS-I and PS-II in the light reaction of photosynthesis. 5. Briefly explain the process of biological nitrogen fixation. OR 5. Explain the transport and mode of action of auxins.	14)
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5. Explain the transport and made of actions	98)
5. Explain the transport and made of a state of	-
company the transport and mode of action of auxims. (08)	8)
6. Write an account on synthesis of phenolic compounds. OR (08)	8)
6. What are terpenes? Explain their role in plant defense. (08)	3)