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Serial No. _____

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[55/A-q]

SARDAR PATEL UNIVERSITY

EXTERNAL EXAMINATION- APRIL -2019

B.Sc. VI semester - PLANT BIOCHEMISTRY

Paper Code No. US06CBCH02

DATE:-27/3/2019

Total marks:70

Time:10:00am -1:00pm

Q. I

Multiple Choice Questions:

10

1. Plants shoot tips primarily manufacture-----
A] Auxin B] ethylene C] Cytokines D] IAA
2. ----- has principal effect for branching of plants.
A] Cytokinins B] ethylene C] auxin D] Abscisic acid
3. -----play an important role for pollen elongation .
A] ethylene B] Cytokinin C] brassinosteroid. D] Abscisic acid
4. ----- responsible for rigidity of secondary cell wall ..
A] pectin B] lignin C] cellulose D] proteins
5. Plant needs ----- for Creep activity
A] expansins B] phenol C] jasmonic acid D] proteins
6. Water droplets on leaf found in early morning is-----
A] guttation B] dew C] rain D] moisture
7. ----- is not an example of secondary metabolites of plants.
A] Hormones B] phenol C] tannin D] flavonoids
8. A leaf is protected from water loss by -----
A] suberin B] cutin C] ethylene D] all three
9. carbon fixation is a process in which Carbon dioxide is converted to -----
A] carbon B]sugar C] water D] bicarbonate
10. Light dependent reactions occurs in -----.
A] granules B]stroma C] grana D] thylakoids

[P.T.O.]

Q.2	Answer in short. (Two mark each-answer any ten)	20
	1) explain transport of water in plant.	
	2) List the biomolecules of plant cell walls.	
	3) Write a structure for auxin and ethylene.	
	4) Write note on abscisic acid production during unstressed condition.	
	5) Why hot areas are not favorable for C ₃ plants	
	6) Define – Hill reaction	
	7) What do you mean by secondary metabolites of plant	
	8) Write on properties of phytoalexins	
	9) Give meaning for transpiration.	
	10) What is pectin. Draw structure	
	11) What is shikimate pathway.	
	12) Write a main role of brassinosteroid.	

Q.3	Long questions	
3-a	Write on Cell Expansion	5
3-b	Write note on water absorption by plant	5
	OR	
3-a	Explain Translocation of water in plant	4
3-b	Write on biomolecules present in plant cell wall.	6
4-a	Write an account on uses of gibberellins.	6
4-b	Give structure of plant hormones	4
	OR	
4-a	Write role of – cytokinin and auxin in plant growth.	5
4-b	Explain role of salicylic acid.	5
5-a	Explain – Calvin cycle .	5
5-b	Write on factors affecting on photosynthesis.	5
	OR	
5-a	Explain – light dependent reaction.	4
5-b	Write on - organ of plant play an important role for photosynthesis	6
6	Explain –how plant phenol compounds derived from shikimate path way.	10
	OR	
6	Write note on plant coating materials..	10

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