## PARUL UNIVERSITY

## PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTED INTERNAL EXAMINATION MARCH 2020

## MID SEMESTER INTERNAL EXAMINATION,MARCH 2020 M. Sc. Semester 2

**Subject: Biochemistry** 

Paper Code: 11203156Title of the paper:Plant Biochemistry Date:3/3/2020 Time:2:30 pm to 4:00pm

**Maximum Marks: 40** 

**Instructions:** 

- 1. All questions are compulsory and options are given in first and second question only.
- 2. Numbers to the right of question indicate the marks of respective question.

Q. 1		npt any one question of the follo	owing.		(08)			
Q. 2	<ul><li>(ii)Describe-Light dependent reaction</li><li>Attempt any three questions of the following.</li><li>(i)Photochemical reaction center in photosystem</li><li>(ii)Which are three different forms in which water is present in the soil?</li></ul>							
		(iii)Explain- External secretory tissue (iv)what are the difference between C3 and C4 Plants						
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Q. 3	(v)Sh Do as (i) De	(05)						
	<ul><li>(ii)What is root quiescent zone</li><li>(iii)Evapotranspiration</li><li>(iv)what is absorption?</li><li>(v)Define-Photorespiration</li></ul>							
Q. 4	Write correct option in your answer sheet for following 15 multiple choice questions. (15)							
MCQ 1	A plant cell wall is mainly composed of							
	(A)	Protein	(B)	Cellulose				
	(C)	Lipid	(D)	Starch				
MCQ 2	Larg	Large storage for food, water and waste is present in						
	(A)	vacuole	(B)	tissue				
	(C)	organ	(D)	Cellulose				
MCQ 3	Plasmodesmata connection helps in							
	(A)	Cytoplasmic streaming	(B)	Movement of substacell	ances between			
	(C)	Locomotion of unicellular organisms	(D)	None of above				
MCQ 4	Whe	Where does light reaction take place?						
	(A)	Grana	(B)	Stroma				
	(C)	Cytoplasm	(D)	Endoplasmic reticul	um			
MCO 5	In nh	In photosynthesis dark reaction, is called so because						

	(A)	It occurs in dark.	(B)	It does not require light energy.			
	(C)	It cannot occur during daytime	(D)	It occurs more rapidly at night.			
MCQ 6	Name the pigment which is responsible for absorption of light in plants?						
	(A)	Chlorophyll	(B)	Stoma			
	(C)	Xylem	(D)	Phloem			
MCQ 7	Gap junctions are otherwise known as plasmodesmata.						
	(A)	True	(B)	False			
MCQ 8	Name the structural unit of photosynthesis?						
	(A)	Thylakoid	(B)	Grana			
	(C)	Stroma	(D)	Chlorophyll			
MCQ 9	Which of the following statements are true regarding Photosystems?						
	(A)	Photosystems are	(B)	Many Prokaryotes have only one			
		arrangements of chlorophyll		photosystem.			
		and other pigments packed					
	into thylakoids.						
	(C)	Both A and B are correct.	(D)	Only A is correct.			
MCQ 10	To produce 3 glucose molecules ATP and NADPH2 molecules are						
	requi	red.					
	(A)	54, 36	(B)	54, 30			
	(C)	36, 60	(D)	18, 12			
MCQ 11	The source of CO2 during calvin cycle in C4 plant is						
	(A)	Malic acid	(B)	OAA			
	(C)	PEP	(D)	RuDP			
MCQ 12	Light reaction of photosynthesis results in formation of						
	(A)	O2	(B)	NADPH + H+			
	(C)	ATP	(D)	All of these			
MCQ 13	In Calvin cycle,						
	(A)	fructose 1,6 diphophate	(B)	ATP is formed during			
		undergoes dephosphorylation.		dephosphoylation of fructose			
	(C)	1,3 di PGA undergo	(D)	none of these			
		phosphorylation					
MCQ 14	In non-cyclic photophosphorylation, all the participants acts as electron donor and						
	-	otor except					
	(A)	Chl-a of PS I	(B)	Chl-a of PS II			
	(C)	NADP	(D)	Both (A) and (B)			
MCQ 15	In n	on-cyclic photophosphorylation					
WICQ 13	(A)	ATP is generated	(B)	Both PSI and PSII are involved			
	(C)	•	(D)	All the above			
	(0)	Electron flow is	(2)	The doore			
		unidirectional					