PARUL UNIVERSITY

COLLEGE OF AGRICULTURE B.Sc.(Hons.) Agriculture Summer 2017 - 18 Examination

B.Sc.(Hons.) Agricultu	ure Summer 2017 - 18 Examination	
Semester: 2	Date: 22/05/2018	
Subject Code: 20110153	Time: 10:30 am to 01:00 p	m
Subject Name: Fundamentals of Crop Physiolog	y Total Marks: 60	
Instructions		
1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1 Do as Directed.		
A. Fill in the blanks. (Each of 1.00 marks)	()	10)
1.The basic unit of life		
2. The place of light reaction in the chloropla		
3. The energy house of the cell		
4.The full form of ATP		
5. The only gaseous hormone is		
6. The hormone produced in the plants during		
7. The site of glycolysis in the plant cell		
8. The semi-permiable membranes in the plan		
9. The type of ribosome in the prokaryote cel		
10.The cell was discovered by	_	
B. Multiple choice type questions. (Each of 1	.00 mark) (1	10)
1. The main function of mitochondria is		
a) respiration	c) reduction	
b) photosynthesis	d) hormone synthesis	
2. The enzyme present in the lysosome is	· · · · · · · · · · · · · · · · · · ·	
a) Hydroxylase	c) Nuclease	
b) Acid phosphatise	d) DNA polemaerase	
3. The only $\frac{1}{5}$ carbon compound in the kreb's		
a) Succinate	c) Citarte	
b) Malate	d) Alpha keto gluteric acid	
4. The end product of light reactions are	2)	
a) ATP and NADPH2	c) Pyruvic acid	
b) Glucose	d) Sucrose	
5. The location of lenticels in the plants is		
a) Stem	c) Root	
b) Leaves	d) Flowers	
6. Tiny pores on the surface of leaves		
a) Stomata	c) Hydathodes	
b) Lenticels	d) None	
7. The type of ribosome in the prokaryote ce		
a)80s	c)60s	
b)70s	d)50s	
8. The osmosis is only applicable for	u)508	
	a) Both	
a) Liquids	c) Both	
b) Solids	d) None	
9. The centricle present in	a) Dualas mas (a.e.	
a) Animal cell	c) Prokaryotes	
b) Plant cell	d) Bacteriophages	
10. Golgy bodies were discovered by		
10. Golgy bodies were discovered bya) Hollickerb) Camillo Golgy	c) Benda d) Watson	

Q.2	Do as Directed.	
A	. Define the following. (Any five)	(05)
	1.Transpiration	
	2.Photosynthesis	
	3.Glycolysis	
	4.Photophosphorylation	
	5.Respiration	
	6.Guttation	
	7.Stomata	
B	Answer the following. (Any Five)	(05)
	1. Eukaryote cell	
	2. Plasmolysis	
	3. Osmosis	
	4. Kreb's cycle	
	5. Photolysis of water	
	6. Diffusion	
	7. Cell	
Q.3	Write short notes. (Any five)	(15)
	1. Explain the cell theory	
	2. Write the function of vacuole	
	3. Write down the structure of chloroplast and labelled it	
	4. Explain the types of transpiration	
	5. Write down the structure of stomata and labelled it	
	6. Mention the parts of plant cell and explain the main function of mitochondria	
0.4	Long Questions. (Attempt any three)	(15)
x	1. Write down the kreb's cycle	()
	2. Explain the steps involved in the glycolysis	
	3. Explain nitrogen deficiency, function and corrective measures in the plants	
	4. Explain the pathway of pyruvic acid in different organisms	