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SARDAR PATEL UNIVERSITY SECOND YEAR B.Sc.(THIRD SEMESTER) EXAMINATION

2018 SATURDAY, 24th NOVEMBER 2:00 TO 5:00 pm USO3CBIO 01 (CYTOLOGY)

		Marl	ks: 70
Note: 1. Answers of all the questions (inc	luding multiple	choice questio	ns)
should be written in the provide	ed answer book	only	
2. Draw neat and labelled diagram	s wherever nece	ssary	
Q.1. Select the correct answer and write	it in the answer	sheet.	[10]
1 is outermost layer of plant ce	11.		
(a) cell wall (b) cell membrane	(c) cytoplasm	(d)non	e
2 is semi permeable in nature.	(0) 001	•	
(a) cell wall (b) cell membrane (c) cell	lamellae (d) N	one of these	
3 is network from cell membrane	e to nuclear mem	brane.	
(a) Mitochondria (b) Endoplasmic reticult	ım (c) ribosom	es (d) chlorop	last
4. The function of chloroplast is	,		
(a) secretion (b) respiration	(c) photosy	nthesis (d) no	ne
is nowerhouse of cell.	,		
(a) chloroplast (b) mitochondria	(c) golgi body	(d) endoplasm	ic reticulum
6 A call having more activity has	number of mil	cochondria.	4.00
(a) more (b) less	(c) same	(d) None of th	ese
7 Golgi body helps in .			
(a)protein packaging (b)photosynthesis (c)	respiration	(d)none	
8. Light reaction occurs in			,
8.Light reaction occurs in (a) stroma (b) grana (c) both	(d) None of the	nese	
9. Dark reaction occurs in (a)stroma (b) grana (c) both			
(a)stroma (b) grana (c) both	(d) None of t	nese	
is outer covering of nucle	eus.		
(a) Nuclear membrane (b) cell membran	e (c) cell wall	(a) none	
			-
and the second of the second o	THE A SHEET OF THE ST	e.	
			[20]
Q.2. Answer the following. (Any ten)	11		[20]
1. Write chemical composition of cell wa	ıll.		
2. What is pinocytosis?			
3. What is active transport?	•		
4. What are microbodies?	1,,,,,,		
5. Write the types of Endoplasmic reticul	luin.		

6. Draw labelled diagram of Golgi body.7. Explain structure of chloroplast.8. Why is lysosome called suicidal bag?9. Explain function of cilia and flagella.10. What are ergastic substances?11. What are microtubules?		
12. Write the function of nuclear pore.		
Q.3.(a) Explain the ultra structure of plant cell wa(b) Enlist functions of plant cell wall.	oll. OR	[05] [05]
Q.3.		
(a) Discuss the structure of cell membrane.(b) Explain all functions of cell membrane.		[05] [05]
Q.4. Describe the structure and function of m	nitochondria in detail.	[10]
Q.4. Explain the structure and function of Go	OR olgi body.	[10]
Q.5.(a) Write about chemical composition of Chl(b) Write about the types of lysosomes.	oroplast.	[05] [05]
Q.5.(a) Write a short note on peroxisomes.(b) Write a note on glyoxisomes.		[05] [05]
Q.6.(a) Enumerate and explain about nuclear mer(b) Explain about nucleoplasm.	mbrane.	[06] [04]
	OR	
Q.6.(a) Write a note on nucleolus.(b) Discuss function of chromatin material.		[06] [04]
	✓	

