(83)

## SARDAR PATEL UNIVERSITY

## SECOND YEAR B.Sc. (THIRD SEMESTER) EXAMINATION

2013

## TUESDAY, 19<sup>th</sup> NOVEMBER 2:30 TO 5:30 pm US**0**3CBIO 01 (CYTOLOGY)

Marks: 70

Note: 1. Answers of all the questions (including multiple choice que	stions)
should be written in the provided answer book only	

2. Draw neat and labelled diagrams wherever necessary Q.1. Select the correct answer and write it in the answer sheet. [10] 1. The rough endoplasmic reticulum has \_\_\_\_\_on it. (a) ribosomes (b) microbody (c) vesicle (d) None of these. 2. Light reaction occurs in (a) Grana (b) Stroma (c) Both (d) None of these 3. The primary lysosomes are formed from \_\_\_\_ (a) Golgi body (b) Endoplasmic reticulum (c) Nucleus (d) None of these 4. The centrioles are involved in (a) Spindle formation (b) Cytoplasmic streaming (c) Both (d) None of these 5. is a process of trapping the solid particles in to vesicle by plasma membrane. (c) Cytokinesis (d) Phagocytosis (a) Pinocytosis (b) Exocytosis 6. When a cell organelle is trapped by lysosome it forms \_\_ (b) autophagic vacuole (a) residual body (c) pinosome (d) phagosome 7. The network of fibers inside forms \_\_\_\_\_ (a) Skeleton (b) Cytoskeleton (c) Mesoskeleton (d) Chromatin network 8. The microtubules are made up of \_\_\_\_\_ protofilament. (a) 13 (b) 11 (c) 10 (d) 12 protozoan animal is having bi nucleate cell. (a) Amoeba (b) Paramecium (c) Euglena (d) All of the above 10. is a micro body. (a) Peroxisome (b) Glyoxisome (c) Both (d) None of these Q.2. Answer the following. (Any ten) [20] 1. State chemical composition of Nucleolus. 2. Differentiate between Cilia and Flagella. 3. What are Peroxisomes? 4. Write functions of Nulear membrane. 5. Why are lysosomes called suicidal bags? 6. Draw a labelled diagram of chloroplast.

7. Explain the function of Golgi body.	\A/=!I		
8. Explain in brief the structure of Cell			
9. Write about structure of golgi body.			
10. What are ergastic compounds?			
11. Write the function of Nuclear pore			
12. Write the function of micro filamer	11.		
Q.3.	11 11		
(a) Write about the structure of plant		olada a faraba a fafi da fara a	[5]
(b) Describe the structure of plasma m	embrane wit	in the help of fluid mo	
model.	OD		[5]
0.3	OR		
Q.3.		41	
(a) What is active transport? Explain the	ne mechanisi	m through plasma	
membrane.			[5]
(b) Write about the chemical composit	ion and func	tion of plant cell wall.	[5]
Q.4.	:A:		
Write about the types, chemical comp	osition and t	unction of endoplasmi	
reticulum	OD		[10]
0.4	OR		
Q.4.	و ند و در کا او در د		[40]
Explain about the structure, distributio	n and function	on of Millochondria.	[10]
0.5			
Q.5.	ion and kinds	s of lysosomos	rei
(a) Write about the chemical composition		or tysosomes	[5]
(b) Write the function of chloroplast in			[5]
0.5	OR		
Q.5. Write short notes:			
			(E)
(a) Glyoxysomes			[5]
(b) Function of lysosomes.			[5]
Q.6.			,
Write short notes:			
(a) Nuclear envelope			[5]
(b) Nuclear pore			[5]
(b) Nuclear pore	OR		[J]
Q.6.	OIL		
(a) Write about chemical composition (	of Nucleonlas	em.	[5]
(b) Define Nucleolus and give its function	•	ин	[5]
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