

(A-7) Seat No: \_\_\_\_\_

No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY  
B.Sc. - V SEM  
EXTERNAL N.C EXAMINATION- MAY 16

Biochemistry. v semester

Paper Code No. US05CBCH04 CELL BIOLOGY

DATE:-13/5/2016, Friday

Total marks:70

Time:10:30am -1:30pm

Q-1 MULTIPLE CHOICE QUESTIONS:

10

1. In the cell apex is the basal body that is the anchoring site for a-----  
A] basal granule B] flagellum C] kinetosome D] centriole
2. Plasma lemma is an external boundary of the cell composed of -----  
A] Phospholipids B] Protein C] Carbohydrate D] All Three
3. Exocytosis is a process for-- -----  
A] Pushing Substances Out Of The Cell B] Moving Molecules "Uphill"  
C] Phagocytosis For Solids And Water D] Taking Substances Into
4. Control over gene expression contributes to the -----of the prokaryote  
A] simplicity B] Requires Energy C] Pushing Substances D] Transfer Of Signals
5. The endosymbiotic origin of mitochondria is established based on-----  
A] Molecular Sequence Data B] DNA Sequence Data  
C] Molecular Sequence Data And Other Characteristics D] Other Characteristics
6. Turgor pressure occurs in plants cells as their central vacuoles  
A] Fill With Water. B] Requires Energy  
C] Pushing Substances D] Transfer Of Electrical And Chemical Signals
7. The position of the centriole determines the position of the  
A] Nucleus B] myosin C] centrosome D] actin
8. Microtubules is a types of -----  
A] actin filaments B] cytoskeleton C] Chloroplast D] intermediate filament
9. Proteasome recognises proteins destined for destruction and are coupled to----- A]  
Ubiquitin Molecule B] Protein C] Carbohydrate D] Phospholipids
10. cell is in any phase of the cell cycle , it is often said to be in  
A] anaphase B] interphase.C] prophase D] prophase II

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(P.T.O.)

Q-2	<b>SHORT QUESTIONS [ANSWER ANY TEN]</b>	20
1)	What are Actin Filaments	
2)	Define-polymerization and depolymerisation of Microtubules	
3)	Explain- Control of the animal cells Cycle	
4)	Write on Separation of the sister chromatids.	
5)	What is apoptosis,	
6)	Write role of the Plasma lemma	
7)	Write on cell Endocytosis	
8)	Enlist utilization of lysosome enzymes	
9)	Explain - structure of Microtubules	
10)	What is evidence of Endosymbiosis Theory?	
11)	Write on Phospholipids of plasma membranes	
12)	Write on gene expression of the prokaryotes and eukaryotes.	
Q.3	A] Differentiate Between structural organelles for Animal And Plant Cell	6
	B] Write on Eukaryote Evolution	4
	OR	
	A] classify and explain cell junctions	6
	B] give brief account on ' models of origin'	4
Q.4	A]Write on Inclusion bodies and give examples	5
	B]explain- Trans membrane Trafficking	5
	OR	
	A]Classify ER and explain structure and functions	6
	B] Draw a labelled structure for cell power house.	4
Q.5	A]Write on Basal bodies.	4
	B]What is centrioles and discuss Function of centrioles	6
	OR	
	A]write note on-Inter mediate filament	6
	B]Explain-Axonal Microtubules	4
Q.6	Give brief account on all phases of mitosis with neat diagram .	10
	OR	
	Explain- process of meiosis. Draw the diagram for different prophase and anaphase of meiosis	10

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