SARDAR PATEL UNIVERSITY

[43/A+0]

External examination-2018

No. of Printed Pages ; 2

B.Sc. (Biochemistry) V semester Paper code no. US05CBCH04 **CELL BIOLOGY**

Date 29/10/018 Mondage Time: 10.0am-1.00pm

Total marks:70

Q-1. Multiple choice Questions

1.	are main types of cell junctions		
	A] Tight And Adherens, B] Desmosome & Tight		
	C] Desmosomes And Hemi desmosomes D] Inter-Cellular And Extracellular		
2.	Endocytosis 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 The Cell		
3.	Integralregulate passage and active transport across the membrane.		
	A] Phospholipids B] Protein C] Carbohydrate D] cholesterol		
4.	During mitosis, the centrioles replicate and produce the		
	A] actin filaments b]intermediate filaments. C] spindle fibers D]All three		
5.	are organized complex structures by internal membranes and a cytoskeleton. A]Animal Cells B] Plant Cells C]Prokaryotic D]Eukaryotic		
6.	facilitate communication between the nucleus and the cytoplasm		
	A] Pores B] Cytosol C] Basal Granule D] Kinetosome		
7	A] Basal Granule B] Cytosol C] Kinetosome D] Mitochondria		
8,0	Checkpoint failures allow the cell todividing A] enhance B] prohibits C] discontinue D] continue		
9,-	A] G ₂ B]M C] G ₀ D] G ₁		
10	A] adenovirus B] chaperone C] securin D]cohesion		

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1	Short questions.[attempt any ten] [20 What is tubulin?	marks]
2	Give meaning of Prokaryotes and eukaryotes.	
3	Explain recycling of G-actin.	ř.
4	Enlist utilization of cell enzymes	
5	Write on types of plant Endocytosis	+.**
6	Explain - Separation of the sister chromatids.	
7	How microtubules serve as the generating force for chromosomes sep-	aration.
8 9 10	How polymerization mechanism of intermediate filaments differs that Write on key player in apoptosis Write on Phospholipids of plasma membranes.	n actin.
11	Classify stem cell.	
12	What makes a cell decide to commit suicide?	
	Longquestions 40	
Q.3	Longquestions 40 A] Classify and write note on cell junctions	5
	B] Explain- how can you differentiate Animal and Plant Cell	5
Q.3	OR Al Explain models of existing the land of the second of	
(A] Explain – models of origin "nucleus first mitochondria later"B] write note on - Fluid Mosaic Model	5
Q.4	TABLE WELL AND THE CONTROL OF THE CO	
	A] Write brief account on Eukaryotic Cilia	4
	B] What is centrioles and discuss Function of centrioles. OR	6
Q.4		
C	A] Explain-Axonal Microtubules are Dynamic and Stable	6
Q.5	B] Write on Basal bodies are platforms for building cilia	4
4.0	A] Give brief account on lysozymes	6
	B] What is Golgi apparatus	4
ž.	entra Talmenakéh atau kalamas. OR manana mananakéh atau kalamasa man	
Q.5	A] Discuss- Inclusion bodies and the state of the state o	.4
	B] Write note on structure of Plasma membrane	:4
Q.6	What is Apoptosis. Explain the Mechanisms of Apoptosis with neat diagram. OR	6
Q.6	Explain cell cycle and discuss "M phase" stages for plant cell with a labelled diagram.	10