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SARDAR PATEL UNIVERSITY

B. Sc. (ZOOLOGY) - Fifth Semester Examination

Friday, 15th November, 2019 10:00 a.m. to 1:00 p.m.

US05CZOO03: CELL BIOLOGY

ivote:	 Figures to the right indicate marks Draw diagram wherever necessary 				
			MARKS: 70		
Q-1 N	AULTIPLE CHOICE QUESTIONS:		[10]		
1.	Methylene blue is		•		
	A) basic stain B) acidic stain	C) neutral sta	in D) none		
2.	The fixative Carnoy's fluid is contains		,		
	A) 3 parts glacial acetic acid and 1 part et	nanol			
	B) 3 parts ethanol and 1 part glacial acetic	acid			
	C) 3 parts glacial acetic acid and 1 part Mo	ethanol			
	D) 3 parts ethanol and 1 part acetone				
3.	Fluid mosaic model of plasma membrane	proposed by			
	A) Danielli and Davson B) David Ro				
	C) Hilleir and Hoffman D) Singer ar				
4.	The inner membrane of the mitochondria	s usually highly convol	ated forming a series of		
	infolding known as				
_	A) thylakoids B) lamellae	C) cristae	D) grana		
5.	if centromere found on the proximal end of chromosome is known as				
_	A) telocentric B) acrocentric	C) sub metacentric			
6.	The nucleus is separated from the surround				
	A) single layer with pores	B) double layers with	-		
-	C) single layer without pores D) double layer				
7.	Which of the following is NOT an exampl		s?		
	A) Polytene chromosome	B) sex chromosome			
O	C) Lampbrush chromosome	D) B-chromosome			
8.	Term basal body is associated with the dev	_			
	A) cilia and flagella	B) cell plate			
9.	C) phragmoplast	D) kinetochore			
9.	The size of ribosomes and their subunits are subunits and their subunits and their subunits are subunits are subunits.				
	A) Angstrom (A ⁰)	B) Micrometer (μ)			
10	C) Svedberg units (S)	D) Diameter			
10.	Cilia and flagella of eukaryotic cells are m A) microfilaments B) microtubule	ade up of C) intermediate filam	 ent D) all		
	11, moromaniones D) moromonic	C) miciniculate main	ciii D) all		

Q-2 /	ANSWER IN SHORT [ANY TEN]	[20]	
1.			
	Write about Leeuwenhoek's microscope		
3.			
4.	1 2		
5,			
6. Draw a labeled diagram of golgi body			
	7. Distinguish between Diploid- Haploid.8. What is chromosomal aberrations? Give the name of two kinds of aberrations?		
9. 10	, i		
	Define the terms peroxisome and glyoxysome.		
	2. Write the functions of microtubules.		
Q-3	A) Give a detailed account on Electron microscope	[05]	
	B) Explain Radio Immuno Essay	[05]	
	OR		
Q-3	A) Write a note on Electrophoresis	[05]	
	B) Explain methods of Fixation and staining	[05]	
Q-4	A) Explain the structure and major functions of mitochondria	[05]	
	B) Describe the types and structure of endoplasmic reticulum.	[05]	
	OR		
Q-4	A) Explain the fluid mosaic model and functions of plasma membrane.B) What are the lysosomes? Describe the polymorphism in lysosomes.	[05] [05]	
Q-5	Give an account on morphology and structure of chromosomes.	[10]	
	OR	•	
Q-5	What is polyploidy? Describe different types of polyploidies.	[10]	
Q-6	What is meant by 70S and 80S ribosome? Describe structure of both types of ribosomes.	1101	
	•	[10]	
	OR		
Q-6	Explain ultra structure of cilia and basal bodies	[10]	

