

## **BIOLOGY**

**TOPIC: Cell** 

1.	Which among the following	is not correct?							
	(A) No cell can have a volume whose metabolic requirements exceed the exchange capacity of its surface.								
	(B) Generally, a cell which is metabolically very active can not have very large volume.								
	(C) Small bodies have more surface per unit volume than large bodies.								
	(D) Generalisation are not universally applicable to all living organisms.								
2.	The Prokaryotic among the following is:								
	(A) Protozoa (I	B) Yeast	(C)	Bacteria	(D) Algae				
3.	Which of the following is found in Prokaryotes?								
	(A) Mitochondria (I	B) Histone	(C)	Actin and Myosin	(D) Formylated methionine				
4.	Which among the following is correct for dinoflagellates?								
	(A) They are unicellular			(B) has nuclear envelop but no histones					
	(C) They are Prokaryotes			(D) More than one of the above					
5.	Eukaryotes, the histone probably remain bound to the DNA:								
	(A) at all times		(B)	at some time during re	plication				
	(C) at some times during RN	VA synthesis	D) only during protein synthesis						
6.	The surface tension of cell is	s:							
	(A) 1000 dyne/cm (I	B) 100 dyne/cm	(C)	10-50 dyne/cm	(D) almost nil				
7.	Which among the following is correct for prokaryotes?								
	(A) RNA and protein synthesized in same compartment								
	(B) Histone remain bound to DNA at all times								
	(C) Cell division by mitosis and meiosis								
	(D) Nuclear membrane separate the nucleoplasm with cytoplasm.								
8.	Was a German scientist, who observed that all plant tissues are made up of cells. At the same time								
	British scientist studied different type of animal cells. Though he was able to observe the nuclei, but he could no								
	locate the cell wall, he examined and realised that cell wall forms a unique character of plants.								
	(A) Rudolf Virchow and Nageli respectively								
	(B) Mathias Schleiden and Theodore Schwann respectively								
	(C) Theodore Schwann and Mathias Schleiden respectively								
	(D) Robert Hooke and Purkinje respectively								
9.	Cell theory which was given by Schleiden and Schwann, did not explain as to how the new cells are formed								
	modified the hypothesis of cell theory to give it a final shape?								
	· -	B) R.Virchow		Both (A) and (B)	(D) C.P. Swanson				
10.	Who proposed "cell lineage	,	` ′	` ' ' ' '					
_ ,.	(A) Karl Nageli			Rudolf Virchow					
	. ,			(D) Anton Von Leeuwenhoek					
	(C) Softwarm		(1)	7 Inton von Leeuweilin	OCK				

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11.	Largest isolated single	cell is :-							
	(A) Mycoplasma	(B) Ostrich e	gg	(C) Human	red b	lood cell	(D) Nerve c	ells	
12.	(a) granular structure								
	(b) first observed	under the	electron	microscope	as	dense	particles	by	George
	Palade								
	(c) composed of RNA	and proteins							
	(d) not surrounded by	any membrane							
	Above given statemen	ts are true for whi	ch cell orga	anelle?					
	(A) Nucleolus	(B) Ribosom	es	(C) Cristae			(D) Chlorop	last	
13.	Which one of the following is correct?								
	(a) Nuclear matrix or nucleoplasm contains nucleolus and chromatin.								
	(b) Ectokaryotheca usually remains continuous with the ER and also bears ribosomes on it.								
	(c) Small and less number of nucleoli are present in cells actively carrying out protein synthesis								
	(A) a and b	(B) only a		(C) a, and c	:		(D) b and c		
14.	(a) Minute vesicles								
	(b) Membrane bound								
	(c) Contained enzymes								
	(d) Present in plant and	d animals							
	Above statements are	correct for :-							
	(A) Plastids	(B) Microbo	dies	(C) Nucleoli			(D) Satellite	bodie	S
15.	Central dogma of mole	ecular genetics ap	ply to:						
	(A) All living cells			(B) Plant cel	lls on	ly			
	(C) Plants and animal of	eells		(D) Bacteria	l cell	s only			

## **ANSWER KEY**

1.	D	2. C	3. D	4. D	5. A	6. D	7. A 8. B
9.	В	10. B	11. B	12. B	13. A	14. B	15. A

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