## Karan Arora R.L. Chemistry Classes M: 9253556635

Max Time: 1 hr Class = 11<sup>th</sup> Biology Test Max Marks: 25

**CELL: THE BASIC UNIT OF LIFE** 

[Cell Introduction, Prokaryotic cell and Plasma Membrane]

Q.1	Mι	ıltiple choice questions	:					[ 1 X 5 = 5]
	1)	Branch of biology con	necte	ed with the study o	of str	ucture, genetics a	and function of	cell is
		a) Cytology	b)	Karyology	c)	Cell biology	d) Cytomet	ry
	2)	Schleiden and Schwan	n pr	oposed :				
		a) Phenomenon of Bro	wni	an movement	b)	Cell theory or cel	l doctrine	
		c) Protoplasm as phys	ical l	pasis of life	d)	None of the abo	ve	
	3)	The genetic material in	n pro	karyotes is :				
		a) not envelope by ar	ny m	embrane	b)	Associated with	histones	
		c) enveloped by nucle	ear r	nembrane	d)	do not contain g	enetic material	
	4)	Correct sequence of la	yers	of bacterial cell er	rvelo	ope is :		
		a) Cell membrane →	Glyc	ocalyx → cell wall	b)	Glycocalyx → co	ell wall → Cell n	nembrane
-		c) Cell wall → Glycoca	ılyx -	→ cell membrane	d)	Glycocalyx →	cell membrane	→ Cell wall
	5)	Mesosomes were take	n as	:				
		a) Golgi bodies	) Pl	astids	c)	Mitochondria	d) ER	
-								
Q.2	Def	fine why cell is call the	basio	unit of life?				[1]
Q.3	Am	ong unicellular organis	ms ,	Smallest cell without	out o	ell wall is	<u> </u>	[1]
Q.4	The	e theory of lineage was	give	n by				[1]
Q.5	De	fine polysomes.						[1]
Q.6		I wall of bacteria is mad						[1]
Q.7	In d	cyanobacteria, inward e	exter	nsion of plasma me	embi	ane is known as <sub>-</sub>	·	[1]
Q.8	Dif	ferentiate between Pro	kary	otic cell and Eukar	yoti	c cell.		[2]
Q.9	Wh	nat is a mesosome in pr	okar	yotic cell? Mention	n the	eir functions.		[2]
Q.10	Wh	nat are the postulates o	f cel	I theory?				[3]
Q.11	Dra	aw well labelled diagrar	n of	Animal cell.				[3]
Q.12	Wr	ite a short note of struc	ture	of plasma membra	ane d	of Eukaryotic cell,	also draw labell	ed diagram
	of i	olasma membrane.						[4]

## Neha Malhotra

### R.L. Institute M:

9416974837

Class = 11<sup>th</sup> Biology Test Max Time: 1 hr Max Marks: 25

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Q.1 Multiple choice questions:

[1 X 5 = 5]

- Branch of biology connected with the study of structure, genetics and function of cell is
- b) Karyology
- c) Cell biology
- d) Cytometry

- 2) Schleiden and Schwann proposed:
  - a) Phenomenon of Brownian movement
- b) Cell theory or cell doctrine

d) None of the above

- c) Protoplasm as physical basis of life
- 3) The genetic material in prokaryotes is:
  - a) not envelope by any membrane
  - c) enveloped by nuclear membrane
- b) Associated with histones
- d) do not contain genetic material
- 4) Correct sequence of layers of bacterial cell envelope is:
  - a) Cell membrane  $\rightarrow$  Glycocalyx  $\rightarrow$  cell wall

  - c) Cell wall  $\rightarrow$  Glycocalyx  $\rightarrow$  cell membrane
- 5) Mesosomes were taken as:
  - a) Golgi bodies
- b) Plastids
- Glycocalyx → cell wall → Cell membrane
- Glycocalyx  $\rightarrow$  cell membrane  $\rightarrow$  Cell wall d)
- c) Mitochondria
- d) ER

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- Mesosomes were taken as: 5)
  - a) Golgi bodies b) Plastids
- c) Mitochondria d) ER

Q.2	Define why cell is call the basic unit of life?	[1]
Q.3	Among unicellular organisms , Smallest cell without cell wall is	[1]
Q.4	The theory of lineage was given by	[1]
Q.5	Define polysomes.	[1]
Q.6	Cell wall of bacteria is made up of	[1]
Q.7	In cyanobacteria, inward extension of plasma membrane is known as	[1]
Q.8	Differentiate between Prokaryotic cell and Eukaryotic cell.	[2]
Q.9	What is a mesosome in prokaryotic cell? Mention their functions.	[2]
ე.10	What are the postulates of cell theory?	[3]
Q.11	Draw well labelled diagram of Animal cell.	[3]
ე.12	Write a short note of structure of plasma membrane of Eukaryotic cell, also draw labelled dia	agram
	of plasma membrane.	[4]



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