

Chapter End Test

Date	e :			Sci	enc	2	ВАТСН
	ation: ĸ. Marl		Торіс			Unit of Life	IX
cha to	apter o	of Biology stand and	, Fundamental Unit of lif	e. The pap	er aim	of class 9th who have just co s to check whether the students check the student's writing abilit	have been able
Ge	neral	instruction	on:				
1. 2. 3.	Sect	ion – A is	nsist of two Sections. Stu objective carry 1 mark e subjective.		to atte	mpt both sections.	
				[Secti	on – A		
1.	whe		ers to movement of _ mosis refers to move n.			higher concentration to lov	
	(a)	Substar	nce, water		(b)	Solvent, solute	
	(c)	Solute,	solvent		(d)	Water, substance	
2.	A ce	ll is place	ed in solution s <mark>we</mark> lls u	p. The sol	ution	is	
	(a)	Hyperto	onic		(b)	Isotonic	
	(c)	Hypoton	nic		(d)	Both A and B	
3.	Livir	ng cells w	ere first observed by	real	ir	hoarde	
	(a)	Robert 1	Hooke 90 G/	IUUI	(b)	Van Leeuwenhoek	
	(c)	Rudolf '	Virchow		(d)	Schleiden and Schwann	
4.	Nuc:	leolus is	a seat of				
	(a)	DNA sy	nthesis		(b)	Protein synthesis	
	(c)		nes synthesis		(d)	Enzyme synthesis	
5.	Whi		following is incorrectly	y matched			
	(a)		st cell- Mycoplasma		(b)	Enucleated cell- RBC	
	(c)		Virchow-discovered N		(d)	Purkinjee- Protoplasm	
6.			haracteristic of nuclea	_			
	(a)		gle membranous and		.S		
	(b)		gle membranous and	-			
	(c)		able membranous and		us		
	(d)		able membranous and	-			
7.		_	oteins synthesised in	the cell?			
	I.	Nucleol			II.	Ribosomes	
	III.	Mitocho			IV.	Endoplasmic Reticulum	
	(a)	I and II			(b)	All of these	
	(c)	Only II			(d)	I, II and IV	

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8.	Whi	ch stain is used to stain the plant cells?			
	(a)	Iodine solution	(b)	Safranin	
	(c)	Methylene blue	(d)	All of these	
9.	The	organelle present in both prokaryotic an	d euk	aryotic cells	
	(a)	Nucleus	(b)	Mitochondria	
	(c)	Lysosome	(d)	Ribosome	
10.	. ,	ch of the following organelles is known a	` '	"power house of the cell"?	
	(a)	Golgi	(b)	Mitochondria	
	(c)	Plastids	(d)	Nucleus	
11.	` '	at can be observed in the given picture/d	` '		
	(a) (b) (c)	Human cheek cells, Cell wall, cell memoral by the cells with cell membrane.	ne, cy	otoplasm, vacuole and nucleus	
	(d)	Onion peel cells with cell membrane, co	ytopla	sm and <mark>nu</mark> cleus only	
12.	(a) (b) (c)	ch of the following group of organelles ar Lysosome and chloroplast Plastids and endoplasmic reticulum Mitochondria and plastids	1	ed semi-autonomous organelles?	
	(d)	Endoplasmic reticulum and golgi appar		a la a a wal a	
13.	Whi	ch of the following is an exception of cell		y? Doards	
	(a)	Mycoplasma	(b)	Spirogyra	
	(c)	Amoeba	(d)	HIV	
14.	SER	does not perform in vertebra	ates.		
	(a)	lipid synthesis	(b)	steroid hormones synthesis	
	(c)	protein synthesis	(d)	detoxification of drugs	
15.	Lysc	osomes arise from			
	(a)	Endoplasmic reticulum	(b)	Nucleus	
	(c)	Vacuoles	(d)	Golgi apparatus	
		IS a a t	:an 1	01	
16.	Why	ן Sect r are lysosomes called suicidal bags of th	ion – I	_	[1]
10. 17.		r are bacterial cells different from onion			[1]
					[2]
18. 10		at are the two types of cell division? How		-	[3]
19.	(a)	out to make potato cups. One of these Put each potato cup in a trough cont	pota aining	wo peeled potato halves and scoops each of to cups should be made from a boiled pota g water. Now, put one teaspoon sugar in r in the boiled potato cup (B) Observe the t	ato. aw

potato cups after 2 hours and Explain

- (i) In which cup will water be gathered and why?
- (ii) What is the process called?
- (iii) How is it different from diffusion?
- (b) Draw a cell and label the organelles which
 - (i) forms a large network of membrane bound tubes
 - (ii) wall covering made up of lipid and proteins
 - (iii) waste disposal system of the cell
 - (iv) contains heredity material of the cell

[3+2]







Hints/Solutions to Chapter End Test

Date					Sci	ience				BATCH
_	ation: 1 Hr. k. Marks : 26			Topic:	Fundan	nental U	nit of Life			IX
					[Sect	ion – A]				
1.	(c)	2.	(c)	3.	(d)	4.	(b)	5.	(c)	
6.	(a)	7.	(d)	8.	(c)	9.	(a)	10.	(d)	
11.	(a)	12.	(c)	13.	(b)	14.	(d)	15.	(a)	

[Section - B] Subjective

16. Lysosomes are called suicidal bags of the cell as they destroy themselves and help in removal of worn out cell organelles, foreign particles and worn out cell.

17. Bacterial Cell

1. Prokaryotic cell

- 2. Nucleus not well defined
- 3. Nuclear membrane absent
- 4. Organelles absent.

Onion peel

- Eukaryotic cell
- 2. Nucleus well defined
- 3. Nuclear Membrane present
- 4. Organelles present
- 18. Two type of cell divisions are Mitosis and Meiosis.

Mitosis

- 1. The new cells formed have the same no of chromosome as the parent cell.
- 2. Take place in all the cells of the body.

Meiosis

- The new cells formed have half the no of chromosome of the parent cell.
- 2. Helps in formation of gametes.
- **19.** (a) (i) Water will gather in the raw A cup as water will move from higher concentration i.e. from the trough to lower concentration i.e. the potato cup.
 - (ii) Process is known as Osmosis i.e. Endosmosis.
 - (iii) It is different from diffusion as a semipermaeble membrane is required in it while not in diffusion.



