CELL ORGANELLES

1.	Cell theory is prop	posed by		
	1. Rudolf Virchow	2. Leeuwenhoek	3. Schleiden and Sc	chwann 4. Robert Brown
2.	Non-membrane b	ound cell organelle	found in a living cel	I
	A. Ribosome	B. Lysosome	C. Centriole	D. Chromosome
	1. A & B	2. A & C	3. B & C	4. A, C & D
3.	Arrangement of the	he lipids in cell mem	ıbranes	
	1. In one layer hydr	rophilic ends towards	s outside	
	2. In one layer hydr	rophilic ends towards	s inside	\mathbf{G}
	3. In one layer hydr	rophobic ends toward	ls outside	· · · ·
	4. In a double layer	both hydrophobic er	nds are outside	
4.	Fluid Mosaic mod	el proposed by	X	
	1 Rudolf Virchov	w 2. Leeuwenł	noek	
	3. Schleiden and So	chwann 4. Singer and	d Nicolson	
5.	Carrier proteins i	n the membranes ar	e required for the t	ransport of
	1. Non-polar molec	cules 2. Polar mol	ecules 3. Water	4. Gases
6.	Cell walls of algae	contain		
	A. Cellulose	B. Hemi cellulose	C. Galactans	D. Mannans
	A. Cellulose 1. A, B, C	B. Hemi cellulose 2. B, C, D	C. Galactans 3. A, C, D	5 D. Mannans 4. A, B, D
7.	1. A, B, C	2. B, C, D		4. A, B, D
7.	 A, B, C In living plant cell Plasmodesmata 	2. B, C, D Is intercellular trans 2. Pits	3. A, C, D sport is facilitated by 3. ER	4. A, B, D
7. 8.	 A, B, C In living plant cell Plasmodesmata Chemical substant 	2. B, C, D Is intercellular trans	3. A, C, D sport is facilitated by 3. ER	4. A, B, D y
8.	 A, B, C In living plant cell Plasmodesmata Chemical substant Galactans 	 2. B, C, D Is intercellular trans 2. Pits ce present in middle 2. Hemi cellulose 	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins	4. A, B, D y
	 A, B, C In living plant cell Plasmodesmata Chemical substan Galactans Chemical present 	 2. B, C, D ls intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is	 4. A, B, D y 4. Cytoskeleton 4. Suberin
8. 9.	 A, B, C In living plant cell Plasmodesmata Chemical substan Galactans Chemical present Cutin 	 2. B, C, D ls intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin 	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose	 4. A, B, D y 4. Cytoskeleton 4. Suberin 4. Pectins
8.	 A, B, C In living plant cell Plasmodesmata Chemical substan Galactans Chemical present Cutin Assertion A: Mito 	 2. B, C, D ls intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin 	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose	 4. A, B, D y 4. Cytoskeleton 4. Suberin
8. 9.	 A, B, C In living plant cell Plasmodesmata Chemical substan Galactans Chemical present Cutin Assertion A: Mitos system 	 2. B, C, D ls intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin chondria, chloropla 	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose asts are not consider	 4. A, B, D y 4. Cytoskeleton 4. Suberin 4. Pectins ed as endomembrane
8. 9.	 A, B, C In living plant cell Plasmodesmata Chemical substan Galactans Chemical present Cutin Assertion A: Mito system Reason R: Their f 	2. B, C, D Is intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin chondria, chloropla	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose asts are not consider andent of other cell of	 4. A, B, D y 4. Cytoskeleton 4. Suberin 4. Pectins ed as endomembrane
8. 9.	 A, B, C In living plant cell Plasmodesmata Chemical substand Galactans Chemical present Cutin Assertion A: Mito system Reason R: Their f Both A and R ar 	2. B, C, D Is intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin chondria, chloropla	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose asts are not consider andent of other cell of e correct explanation	 4. A, B, D y 4. Cytoskeleton 4. Suberin 4. Pectins ed as endomembrane organelles of A.
8. 9.	 A, B, C In living plant cell Plasmodesmata Chemical substand Galactans Chemical present Cutin Assertion A: Mito system Reason R: Their f Both A and R ar Both A and R ar 	2. B, C, D Is intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin chondria, chloropla functions are independent the correct and R is the re correct but R is not	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose asts are not consider andent of other cell of	 4. A, B, D y 4. Cytoskeleton 4. Suberin 4. Pectins ed as endomembrane organelles of A.
8. 9.	 A, B, C In living plant cell Plasmodesmata Chemical substand Galactans Chemical present Cutin Assertion A: Mito system Reason R: Their f Both A and R ar 	2. B, C, D Is intercellular trans 2. Pits ce present in middle 2. Hemi cellulose only in secondary w 2. Lignin chondria, chloropla functions are independent the correct and R is the re correct but R is not lse	3. A, C, D sport is facilitated by 3. ER e lamellum is 3. Pectins valls is 3. Cellulose asts are not consider andent of other cell of e correct explanation	 4. A, B, D y 4. Cytoskeleton 4. Suberin 4. Pectins ed as endomembrane organelles of A.

11.	Functions of the	Endoplasmic reticul	lum	
	1. Lipid synthesis	2. Protein s	ynthesis 3. Protection	4. Division of cell
12.	Arrangement of	Golgi complex with	nuclear membrane is	with
	1. Trans face towa	ards nucleus	2. Cis face aw	ay from nucleus
	3. Trans face awa	y from nucleus	4. Either cis o	r trans towards nucleus
13.	Single membran	e cell organelle		
	1. Ribosome	2. Mitochondria	3. Lysosome	4. ER
14.	Steroidal hormo	nes are synthesized	by	
	1. Golgi	2. ER	3. Lysosome	4. Peroxysome
15.	True statement r	egarding Golgi com	plex	U
	I. It helps in the co	ell wall formation		
	II. It helps in intra	cellular transport)
	III. It is a site of g	lycoprotein and glyco	olipid synthesis	
	IV. It synthesizes	steroidal hormones in	n animal cells	
	1. I & II	2. II & III	3. III & IV	4. I & III
16.	Function of Lyso	some is	X	
	1. Digestion	2. Oxidation	3. Hydrolysis	4. Packaging
17.	Anthocyanin pig	ments are found in/	on	
	1. Chloroplast	2. Vacuole	3. Aleuroplast	4. Thylakoids
18.	True statement a	mong the following		
	I. Contractile vacu	loles are present in pl	ants II. Function of vac	uoles in plant is excretion
	III. Vacuole is bo	unded by single mem	brane IV. Vacuole store	e food material
	1. I & II	2. II & III	3. Only III	4. III & IV
19.	Sausage shaped	cell organelle is		
	1. Mitochondria	2. Plastids	3. Golgi	4. ER
20.	Assertion A : Co	ncentrations of ions	in cell sap is more that	an cytoplasm
	Reason R : Diges	tion of food takes p	lace in cell sap	
	1) Both A and R a	are correct and R is th	e correct explanation of	fA.
	2) Both A and R a	are correct but R is no	ot the correct explanatio	n of A.
	3) A is true, R is f	false		
	4) A is false, R is	true.		
21.	Type of ribosom	es found in eukaryo	tic cells	
	1. 70S	2.80S	3. 70S & 80S	4. 70S or 80S

22.	Prokaryotic like cha	aracters in r	nitochondria	is		
	1. Cell division	2. Ge	nome	3. Inner mem	brane	4. All the above
23.	Plastids seen in coty	ledons of A	<i>rachis</i> are			
	1. Chloroplasts	2. Ela	ioplasts	3. Amyloplas	ts	4. Aleuroplasts
24.	Plant leaves show					
	1. Chloroplasts	2. Ch	romoplasts	3. Leucoplast	s 4.	All the above
25.	Cell organelle within	n another c	ell organelle i	S		
	1. Vescicle	2. Ribosome	3. Ly	sosome	4. Plas	stids
26.	Sub units of 70S rib	osome				CO.
	1. 50S and 30S	2.505	S and 20S	3. 40S and 30	S	4. 60S and 40S
27.	Location of ribosom	es in eukar	yotic cells is			`
	A. Cytoplasm	B. At	tached to ER)	
	C. Inside mitochondr	ia D. Ins	side chloropla	sts		
	1. A & B	2. B & C	3. B,	C & D	4. A, I	B, C & D
28.	Function that is not	of cytoskel	eton	\mathbf{O}		
	1. Protection		2. Cell motil	ity		
	3. Signaling across th	ne cell	4. Nuclear d	ivision		
29.	Centrosome consisti	ing of				
	1. 9+2 pattern microt	ubules	2. Tw	o centrioles		
	3.9 peripheral tubule	s	4. Th	ree basal bodie	S	
30. <i>1</i>	Assertion A : In cells	that are car	rying out pro	otein synthesis	have l	arger and more
	nucleii					
Rea	son R : Ribosomal RI	NA synthesi	s, responsible	e for protein sy	ynthes	is, takes place in
	nucleolus					
	1) Both A and R are	correct and I	R is the correc	t explanation o	f A.	
	2) Both A and R are	correct but F	t is not the con	rrect explanation	on of A	
	3) A is true, R is false	e				
	4) A is false, R is true	е.				
31.	Acidity of DNA is no	eutralized b	У			
	1. Histones	2. RNA	3. Non-histo	ne proteins	4. Rib	onucleoproteins

32.	Nucleus is covere	ed by			
	1. Single membra	ne			
	2. Double membr	ane			
	3. Double membr	ane with pores			
	4. Double membr	ane with pores	only in out	er membrane.	
33.	Total number of	microtubules	in a centri	ole is	
	1) 11	2) 27	3)	20	4) 22
34.	Mature plant cel	l without a nu	cleus is		
	1. Erythrocyte	2. Si	eve cell	3. Synergid	4. All the above
35.	Each chromosome	e is made up of	f		U
	1. Two DNA mol	ecules	2. One D	NA molecule	
	3. Many DNA mo	olecules	4. Four D	NA molecules	
36.	Chromosome wit	th only one ar	m is		
	1. Metacentric	2. Acrocent	tric 3. T	Telocentric	4. Sub metacentric
37.	Portion of the ch	romosome be	yond secon	dary constriction	n is
	1. Satellite	2. Arm	3.	Kinetochore	4. Centromere
38.	Each nucleosome	e consisting of	0		
	1) 8 histone prote	ins 2. 4 histone	proteins 3.	3 histone protein	s 4. Many histone proteins
39.	Length of the DN	NA that coils r	ound the n	ucleosome is	
	1. 1000 kbps	2. 10 bps	3.	200 bps	4. 146 bps
40.	Histone protein	which is not a	part of nuc	leosome core	
	1. H ₁	2. H _{2A}	3.1	H_{2B}	4. H ₃
		2			
	N				
		Cell	Organelles	Kev	
		Cell	Vi ganenes	IX y	

Cell Organelles--Key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
3	2	1	4	2	3	1	3	2	1	1	3	3	2	4	3	2	3	1	3
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
3	4	2	4	2	1	4	1	2	1	1	3	2	2	1	3	1	1	4	1