STARS ACADEMY LAHORE

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Roll No. of Candidate

B) Lysosome



Name of Candidate

STARS ENTRY TEST SYSTEM-2020 SESSION - MDCAT

	OLOGICIT'	MDOAT			
Test C	ode: B1 (The Cell)		Time Allowed: 40 Minutes		
1.	. Select the correct option from two columns				
	1 Lysosome	A Protein synthesis			
	2 Mitochondria	B Photosynthesis			
	3 Chloroplast	C Suicidal bag			
	4 RER	D Use ADP			
	A) (1,D) (2,C) (4, A) (3, B)	C) (1,D) (2,B) (4, A) (3, C)			
	B) (1,A) (2,C) (4, D) (3, B)	D) (1,C) (2,D) (4, A) (3, B)			
2.	Which of the following cellular event is NC	T directly involved with mit	ochondria?		
	A) Apoptosis	 C) Controlling cell cycle 			
	B) ATP synthesis	D) Protein degradation			
3.	Example for autonomous organelle(s):				
	A) Mitochondria	C) Chloroplast			
	B) Chloroplast, mitochondria and Golgi	D) Mitochondria and chlorop	last		
4.	Cholesterol functions in the plasmalemma	ı to			
	A) Increase fluidity of the lipid bilayer.				
	B) Decrease fluidity of the lipid bilayer.				
	C) Facilitate the diffusion of ions through the				
_	D) Assist in the transport of hormones across	the lipid bilayer.			
5.	The material inside the endoplasmic reticu	ilum is separated from the c	ytoplasmic material by the		
	spherical or tubular membranes called: A) Cisternae	C) Thylakoids			
	A) Cisternae	C) Triylakolus			
	B) Cristae	D) Grana			
6.	Pancreas produces secretory granules that help in digestion. These granules after passing througe endoplasmic reticulum are pinched off from surface of Golgi apparatus:				
	A) Forming face	C) Maturating face	pparatus:		
	A) Forming race	C) Maturating race			
	B) Outer surface	D) Convex surface			
_					
7.	Eukaryotic cells usually contain	C) Mitachandria			
	A) Endoplasmic reticulum B) Nucleus	C) Mitochondria D) All the above			
		,			
8.	is the largest organelle in a m				
	A) Nucleus	C) Ribosome			
	B) Mitochondria	D) Golgi complex			
9.	Which of the following are not the content	s of vacuole?			
	A) Water	C) Enzymes			
	B) Sap	D) Excretory products			
	5) Sap	D, Excretory products			
10.	0is a site for synthesis of glycolipids and glycoproteins.				
	A) Golgi apparatus	C) Plastid			

D) Mitochondria

11. What A and B indicate in the given diagram?

22.

A) Facilitated diffusion

B) Passive transport



	A) Nucleolus, Nuclear membrane B) Nucleus, Chromatin	C) Nucleus, Nucleolus D) Chromosome, Nuclear membrane	
12.	Prokaryotic cell does not have A) Nucleus B) Mitochondria	C) Golgi complex D) All of these	
13.	Which is the correct order that depicts ho i. Golgi apparatus ii. ER A) I, II, III, IV B) II, III, IV	w vesicles are transported to membranes? iii. Vesicle iv. Plasma membrane C) I, iii, iv, I D) None of these	
14.	Prokaryotic cells usually lack A) Nucleic acids B) Nucleus	C) Ribosomes D) Vacuoles	
15.	The most predominant ribosome type in p A) 60S B) 70S	orokaryotes is C) 80S D) 90S	
16.	The cellular connections in animal cells is A) Plasmodesmata B) Pores	C) Gap junctions D) Receptors	
17.	The space between the cell wall and the plasma membrane in prokaryotes is called A) Periplasmic space B) Extra-cytoplasmic space C) Interstitial space D) Extranuclear space		
18.	Which of the following cell organelle can (A) Ribosome B) Endoplasmic Reticulum	be viewed by a light microscope? C) Golgi D) Mitochondria	
19.	In plant cell, which organelle secretes pectin, hemicelluloses, proteins and microfibrils of cellulose		
	to make cell wall? A) ER	C) Plasma membrane	
	B) Dictyosomes	D) Glyoxysomes	
 20. Microtubules help in A) Cilia, flagella, centrioles, spindle apparatus formation / cell division 			
	B) Chromosomal fibres, nerve processes, endocytosis		
	C) Cell motility and cell shape, muscle contraction		
	D) All the above are correct		
21.	The statement that is wrong about mitoch A) Size and shape of mitochondria varies in a B) Mitochondria in the cell can fuse with one C) Large mitochondria in the call can split int D) In all cells, a single mitochondrion will be	a cell another o two	

C) Active transport

D) Simple diffusion

Which one of the following transport processes requires energy?

23.	The nuclear pore complex A) Permits free communication between the nucleus and the cytoplasm. B) Is bridged by a unit membrane. C) Is located only at specific nuclear pore sites. D) Permits passage of proteins via receptor mediated transport.		
24.	Which one of the following is an inclusion not bounded by a membrane that is observable only during interphase? A) Nuclear pore complex B) Heterochromatin C) Nucleolus D) Outer nuclear membrane		
25.	A structure that is continuous with RER is A) Nuclear pore complex B) Nucleolus.	the C) Heterochromatin D) Outer nuclear membrane	
26.	You would expect a cell with an extensive A) Make a lot of ATP B) Secrete a lot of material	Golgi apparatus to C) Move actively D) Store large quantities of food	
27.	Precursors of ribosomal subunits are four A) Nucleolus B) Peripheral area	nd in C) Central fibril D) Both a + b	
28.	In mitochondria, cristae act as sites for A) Protein synthesis B) Breakdown of macromolecules	C) Phosphorylation of flavoproteins D) Oxidation-reduction reaction	
29.	An outer covering membrane is absent over A) Nucleolus C) Mitochondrion B) Lysosome D) Plastid		
30.	Which one have metabolically active plasma membrane A) Plant cell C) Bacteria B) Animal cell D) ∀irus		
31.	Which of the following is also called as suicidal bag? A) Mesosome B) Peroxisome C) Lysosome D) Mitochondria		
32.	Which of the following is associated with A) Autolysosome B) Peroxisome	endocytosis? C) Chloroplast D) Phagolysosome	
33.	Which of the following has color other than green? A) Leucoplast B) Chloroplast D) Amyloplast		
34.	Rough endoplasmic reticulum is differentiated from Smooth endoplasmic reticulum by having: A) DNA C) Ribosome B) RNA D) Double membrane		
35.	The lens of light microscope nearest to the observer eye is called as: A) Objective lens B) Condenser C) Ocular D) Reflector		
36.	The ability of a microscope to distinguish two close points as two separate points is: A) Efficiency C) Resolving power B) Magnification D) Focal length		
37.	An animal cell differs from a plant cell by A) Nucleus B) Mitochondria	having: C) Centriole D) Ribosome	
38.	The storage house of vital chemicals is: A) Ribosome B) Nucleus	C) Golgi complex D) Peroxisome	
39.	How many chromosome pair are present (A) 2 B) 4	n the fruit fly? C) 6 D) 8	

40.	The cell and cell organelles in biology is (A) Micrometer B) Nanometer	normally measured in C) Metre D) Angstrom		
41.	The increase in fluidity of the plasma mer A) Increasing unsaturated fatty acids B) Increasing in saturated fatty acids	mbrane can be achieved by: C) Increasing glycolipid content D) Increasing phospholipid content		
42.	The oxygen & carbon dioxide cross the c A) Active diffusion B) Facilitated diffusion	ell membranes by: C) Passive diffusion D) Random diffusion		
43.	A) Lysosome B) ER	C) Golgi D) Mitochondria		
44.	The membrane bounded pigment bodies A) Plastids B) Chlorophyll	are C) Xanthophyll D) All of these		
45.	Which of the following are appeared to be A) Ribosome B) Golgi complex	e tubular in appearance? C) Smooth endoplasmic reticulum D) Rough endoplasmic reticulum		
46.	Protein structures which are long, unbrar A) Microfilaments B) Microtubules	nched and slender tubules are called C) Intermediate tubules D) chromatin fibers		
47.	The chlorophyll in the cell is located A) In stroma B) In matrix	C) In lumen D) At thylakoid		
48.	Read the different combinations of terms given below and select the correct combination for anima cell. A) Cell wall, cell membrane, nucleus, plastid B) Cell wall, nucleus, ribosome, chromosome C) Cell membrane, mitochondria, ribosome, chromosome D) Cell membrane, ribosome, mitochondria, chloroplast.			
49.	Green color of leaves is due to presence A) Chlorophyll B) Mitochondria	of the pigment C) Ribosomes D) Anthocyanin		
50.	The most important function of cell membrane is that it: A) Controls the entry and exit of materials from cells. B) Controls only the entry of materials into cells. C) Controls only the exit of materials from cells. D) Allows entry and exit of materials without any control.			
51.	The association of a single mRNA with m A) Polymer B) Polysome	ultiple ribosomes is called as: C) Polypeptide D) Polysaccharide		
52.	In mitochondrion, the ATP synthase is pr A) Inner membrane B) Outer membrane	esent at C) Matrix D) Inter-membranal shape		
53.	The rRNA are actively synthesized in A) Nucleoplasm B) Nucleolus	C) Nucleus D) All of these		
54.	The organelle that is involved in the form A) Golgi apparatus B) Centrosome	ation of cilia, flagella and basal granules? C) Mitochondria D) lysosome		
55.	The subunits of prokaryotic ribosomes at A) 50S + 30S B) 60S + 40S	re. C) 40S + 30S D) 60S + 50S		

56.	A) Ĕi	Golgi apparatus is produced from which o A) Endoplasmic reticulum B) Mitochondria			rganelle? C) Plasmamembrane D) Ribosomes	
57.	A) P	The cell wall of bacteria is made up of A) Peptidoglycan B) Murein			C) N-Acetylglucosamine D) All of these	
58.		Fluid mosaic model for the structure of plasma membrane explains A) A single lipid layer in between two protein layers				
	B) A	B) A layer of proteins on one side and a bilayer lipid on other side				
	C) T	C) Two lipid layers and one protein layer				
	D) P	hospholipid b	oilayer in which	molecules of	proteins are embedded in a mosaic manner	
59.		h Column - olumn – I	l with Column	– II and sele	ct the correct option from the codes given below Column – II	
	A) M	itochondria			(i) Without membrane	
	B) Ly	B) Lysosomes			(ii) Single membrane	
	C) Ribosomes				(iii) Double membrane	
	D) Nucleus					
		Α	В	С	D	
	A)	(i)	(ii)	(iii)	(iii)	
	B)	(iii)	(i)	(i)	(ii)	
	C)	(iii)	(ii)	(i)	(iii)	
	D)	(ii)	(iii)	(i)	(iii)	
60.		Large and central vacuole in plant is response.			onsible is C) Support to the leaves	
	B) Starch storage				D) Ion crystal storage	