## ACADEMY Head office: 590-Q Main Boulevard, Johar Town Lahore, 0321-9432177, 0321-4693044, www.stars.edu.pk

Roll No. of Candidate

11.

A) Inner membrane

Ø Matrix



	_	
Name	of	Candidate

## STARS ENTRY TEST SYSTEM-2021

===	(M   st Code: B-1 (CELL STRUCTURE AND FUNCTION 	DCAT)
	RIC	Time Allowed: 50 min
1,		
	Which side in a cell does luminal and extra lu  A) Cytoplasm, inside ER  B) Cytoplasm, places	Iminal compartments and the
	R) Cytoplasm, inside ER	) Inside ER, cytoplasm
2.	D) Cylopidsiii, piasma membrana	) Nucleus, cytoplasm
_,	A) Nucleoplesm	
	R) nucleus	) Nucleolus
3.	Eukaryotic cells usually contain	) All of these
	R) Mitachandria	) Nucleus
4.	Match List-I with List-II and select the correct	) All the above
	Match List-I with List-II and select the correct List-I	t answer by using the codes given below:
	A) Ribosome 1. Suicidal bag of	fcells
	B) Lysosome 2. Protein factory	
	C) Mitochondria 3. Controller of co	
	D) Nucleus 4. Power house	
<b>3</b> .	Codes:	
	A B C D	
	A) 2 1 4 3	
	B) 4 3 2 1	
	C) 1 4 3 2	
	D) 3 2 1 4	
6.	No nucleus, DNA without histone proteins	s, absence of membrane bound cell organelles are
	characters of Kingdom?	
	A) Protista	C) Monera
	D( E	D) Plantae
7.	A prokaryotic cell can be distinguished from	m a eukaryotic cell. Which of the options, A – D, wo
	only he found in a eukaryotic cell?	
	Δ) A nucleus	C) A cell surface membrane
		D) DNA
8.	B) Ribosomes  Cellular organelle(s) involved in the regulation	on of Ca2 level in the cell
<b>.</b>	A) Mitochondria	
	R) Endonlasmic Reticulum	
	C) Smooth Endoplasmic Reticulum	
	D) Mitochondria and vesicles The Rough Endoplasmic Reticulum (RER) in	the are because of the presence of:
9.	The Rough Endoplasmic Reticulum (RER) ii	C) Ribosomes on the surface of ER
Э.	A \ Mitaahandria associateu wiii E \	D) Sulphur granules on the surface of ER
	B) Volutin granules on the surface of ER	D) Sulphur granules of the same
4.0	B) Volutin granules on the surface of ER  Which of the following organelles is a ma	or site of steroid general
10.	A) Peroxisomes	
	D) Dibacomes	
	D) Rough endoplasmic reticulum  D) Rough endoplasmic reticulum	
	D) Rough endoplasmic reticulum  In mitochondrion, the ATP synthase is pres	c) Outer membrane
11.	In mitocholiulion, the services	C) Outer membrane sha co

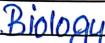
D) Inter-membrane shace

12.	12. The number of	
	The number of mitochondria in a cell depends upon:  A) Size of cell  B) Type (6)	
40	D) Type of Coll	
13.	3. Which of the following cell organity D) Physiological working	
	form ATP?	of a cell
	A) Ribosome	and energy from control
14.	4. How is power:	Carbot
	4. How is new mitochondria formed by the pre-existing ones?	.41
	DI CONUNATION C) FISSION	
15.	The function of the mitochondrial cristae is to	
	A) Prevent escape O <sub>2</sub> gas	
	B) Store co-enzyme A	
	C) Increase the surface area of the s	
40		
16.	is the largest organalle !	`
	A) Nucleus	
47	B) Golgi complex C) Mitochondria	
17.	Tou would expect a cell with an extension of these	
	A) Make a lot of ATP	·
18.	B) Move actively  C) Secrete a lot of mate  C) Store large	erial
10.	3. "Prairies is produced from which and it	
	) —aopiadimic reliculum	
19.	) Dil	
13.	——————————————————————————————————————	
	, 0	•
20.	D) I lastiu	
20.	A) Nucleus	concerned with the formation of
	P) Endonlosmia Datiantos	the formation of.
21.	B) Endoplasmic Reticulum  Which of the following is a second of the second of the following is a second of the following is a second	
<b>-</b> 1.	A) Bounds ID	and steroids in the cell?
	C) Smooth ER	
22.	D) Lysosome Identify the A, B, C, D and E in the figure.	
	raonary the 74, 5, 5, 5 and E in the lighte.	
	C alifidation	
	C Stringer	
	A	
	B	
	E	
	a country and to doubt a a	
<b>24</b> .		( n n = -
	A) A-Smooth endoplasmic reticulum, B-Centriole, C-Golgi apparatu	ıs, D–Rough endoplasmic reticulum, E–
	Ribosomes	100
	B) A-Centriole, B-Smooth endoplasmic reticulum, C-Golgi	apparatus, D-Ribosomes, E-Rough
	' I I I I I I I I I I I I I I I I I I I	
	endoplasmic reticulum C) A⊩Rough endoplasmic reticulum, B–Smooth endoplasmic reticulu	im, C-Ribosomes, D-Certificie, L-Coigi
	apparatus	B. Owesth and an lasmic reticulum, E-
	apparatus  D) A–Centriole, B–Rough endoplasmic reticulum, C–Golgi apparatus	s, D-Smooth endoplastile readam, -
	Ribosomes	
24.	Which of the following is associated with endocytosis?	
	A) Autolysosome (C) Peroxisorite	
	B) Chloroplast D) Phagolysosome	
25.	The subunits of oblere plactic ribosomes are	· COST
	A) 50S + 30S C) 60S + 40S	
	A) 303 + 303	
	B) 40S + 30S D) 60S + 50S	and the same of th
26.	B) 40S + 30S  D) 60S + 50S  Which cell organelle is absent in Kingdom fungi?	A STATE OF THE STA
26.	B) 40S + 30S  Which cell organelle is absent in Kingdom fungi?  A) Chloroplast  C) Ribosome	A Spain Andrews Andrew
	B) 40S + 30S  Which cell organelle is absent in Kingdom fungi?  A) Chloroplast  C) Nucleus  D) 60S + 50S  C) Ribosome  D) Golgi body	
26. 27.	B) 40S + 30S  Which cell organelle is absent in Kingdom fungi?  A) Chloroplast  C) Nucleus  D) 60S + 50S  C) Ribosome  D) Golgi body  Topoplast is a membrane currounding the:	
	B) 40S + 30S  Which cell organelle is absent in Kingdom fungi?  A) Chloroplast  C) Nucleus  D) 60S + 50S  C) Ribosome  D) Golgi body	

			B) Chloroplast Which of the	es found in	prokaryotic cells?		
			Which of the		C) Mitocho D) All  t from prokaryotic cell C) Cell wal		D
			A) Plasmids follow	ing is above	C) Mitocho	ndria	Page   3
			B) Rough endoplasm Which one of the	o lo abser	It from prokaryotic cou	l- <b>0</b>	
1			Which one of the	ic reticulum	C) Cell wal	S? !	sma membrane by simp
1	/		diffusion?	following	D) Riboson	n Nes	
-			A) O <sub>2</sub>	ang s	ubstances is unable	to travers	
	31		B) Na+		0)	traverse the pla	sma membrane i
	. 01	•	Which of the followir A) Phospholipids B) Carbohydrates The uphill movement		C) N <sub>2</sub>		simple by simp
			A) Phospholipide	ng is the mo	ost abundant com-		
_	22		B) Carbohydrates		C) Protein	id in plasma membr	ane by
C	32.	•	The uphill movement A) Don't require energy B) Require him	172	D) All of the	200	number?
			A) Don't require one	or molecul	es through membrane	se	
	20		-/ Negulie high cont-		O) Medulife	energy	
14	33.		Which one of the followard Controle	its of solute	D) Required	low contents of solu	
			A) Centriole	owing organ	nelles always contains	S DNA?	te
			D) Lysosome		C) Golgi ap	paratus	
	(34!)		Which one of the fall		D) Mitochor	ndrion	
			A) Increased amounts of	wing would	exocrine cells be exi	pected to contain a	
			Which one of the follo A) Increased amounts of B) Increased amounts of	DI DNA		to contain as	o a result of their functio
			B) Increased amounts of C) Increased numbers of	rough end	oplasmic reticulum		
			C) Increased numbers of D) Large mitochondria	of lysosomes	3		
	35.		The nuclei of both				
			The nuclei of both pl Which one of the follow	ant and an	ilmal cells contain or	ne or more dense	bodies known as must
			Which one of the follow A) The formation of new	wing correct	tly describes the fund	ction of nucleoli?	Toules known as nucl
		i	A) The formation of new	DNA molec	ules		
			B) The organization of the C) The replication of mit-	ie spindle di	uring nuclear division		
				oconomia to	llowing nuclear division	les que	
	36.	_		omes			
	- ••	į	Which of the following, $\checkmark$ = present; x = abser	A, B, C or	D, correctly shows st	ructures which are	found in a eukaryotic
		,		nt)			,
			Nuclear		Mitochondria	Ribosome	es
		٨	Membranes				
		A	•		in what <b>X</b> pp	X	
		В	-		- ( <sub>1</sub> ( <sub>1</sub> ( <sub>1</sub> ) ✓ )	X	
		C			<b>X</b>	X	
_	-	D			· · ·	Aug Tarion may 1	
3	7.		hat distinguishes a pr			cell?	
			Prokaryotic cells have a				
			Prokaryotic cells have r		ne bound organelles		
			Prokaryotic cells have a		(19)		
		D)	Prokaryotic cells have r	no ribosome	es		
38	3.	W	nich of the following is	present in	all eukaryotic cells?		
			Cell wall		<ul><li>C) diploid nuc</li></ul>	leus	
		B) I	Flagellum		D) Membrane	bound organelles	
39	_	Dar	ocrose tiesue from a f	reshly kille	ed rat was removed,	placed in warm is	otonic saline solution
	•	rad	inactively labelled am	ino acids v	vere added. At interv	als after adding th	e amino acids, sample
		41	ticava wara ramayad	sections of	cut and the sites of ra	dioactivity determi	ned.
		Whi	ich one of the followin	a represen	ts the order in which	radioactivity appe	ared in organelles?
		44111		J P. 32 37.	Smooth	Rough	Secretory
		١.,	Oslai apparatus		endoplasmic	endoplasmic	vesicles
		(A)	Golgi apparatus		reticulum	reticulum	vesicies
				The second		Smooth	Coordon
					Rough endoplasmic	endoplasmic	Secretory
		B)	Golgi apparatus		reticulum	reticulum	vesicles
	- 1	•				Teticularii	2
					Smooth	Calai apparatus	Secretory
	ŀ			ticulum	endoplasmic	Golgi apparatus	vesicles
	ļ	CI	Rough endoblasmic re				
	ļ	C)	Rough endoplasmic re		reticulum		1
		C)	Rough endoplasmic re		reticulum Smooth	Secretory	Golgi
					Smooth	Secretory	Golgi apparatus
		C)	Rough endoplasmic re		Smooth endoplasmic	Secretory vesicles	Golgi apparatus
					Smooth		Golgi apparatus

40.	From which cell organelle are nucleic acid  A) Chloroplast	absent?
	A) Chloroplast B) Mitochondrion	C) Golgi apparatus
41.	How do mitochandria differ from the	
	How do mitochondria differ from chloropla  A) ATP is synthesized only in mitochondria	ists?
	D) DIVA IS found only in chloroplasta	
	C) Membrane bond enzymes are found only in	n mitochand !
	D) NADP is found only in chloroplasts	mitochondria
42.	in eukaryotic cells, transcription occurs in	the nucleus and
		C) Golgi apparatus
12	B) Mitochondrion	D) Ribosome
43.	What identifies a cell as a prokaryote?	,
	A) The DNA is associated with protein	C) The DNA is in a circular form
4.4	B) The DNA is in the form of a double spiral	
44.	Prokaryotic cell is one, which lacks all exc	cept does not have
	7 () 1 Topol Hadicus	C\ F <sub>1</sub> -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
45	B) Proper nucleus and most of cell organelles	
45.	III the liuid – mosaic membrane model the	O Dheart II I I I I I
	A) is salidwiched between two protein lavers	C) Has proteins embedded in it
40	b) Lies on top of a single protein laver	1)) Is covered by a single protein level
46.	The main function of plasma membrane is	s to
	A) Maintain the cell shape and size	
	B) Control of all cellular activity	
	C) Regulate the flow of materials into and ou	tside the cells
	D) Store cell material	
47.	Liquid food drinking is	
	A) Pinocytosis	C) Phagocytosis
	B) Imbibition	D) Exocytosis
48.	The main difference between active and p	passive transport across cell membranes is that
	A) Passive transport is nonselective	
	B) Passive transport requires a concentration	on gradient across the cell membrane where as active transport
	requires metabolic energy	
	C) Passive transport is confined to anions ar	nd active transport for cations only
	D) Active transport occurs more rapidly than	
49.	Which organelle changes the chemical er	nergy into utilizable energy?
70.	A) Lysosome	C) Mitochondria
	B) Endoplasmic reticulum	D) Microsome
	Eukaryotic cell differs from prokaryotic c	
50.		C) 80 S Ribosome
,	A) Cell wall	D) 70 S Ribosome
	B) Cell membrane	D) 10 3 Kibosoffic
	D 6 1	00 (181)
	. Biol	44(04)
		The second state of the second

## SUBJECT



_				
1	A	B	<b>(</b>	0
2	A	B	<b>(6)</b>	(D)
3	$\bigcirc$	B	(0)	0
4	A	B	(0)	(D)
5	$\bigcirc$	B	0	1
6	A	B	0	(D)
7	A	B	(0)	(D)
8	A	B	<b>(</b>	(D)
9	A	B		(D)
10	A	B		(D)
11		B	©	(D)
12	A	B	(0)	
13	A	<b>B</b>	©	(D)
14		B		(D)
15	A	B		(D)
16	A	B		
17	A	B		(D)
18		B	(C)	(D)
19		B	(C)	<b>(</b>
20	A	B	©	1

		,	BI	00	
21	A	B)		0	
22	A	<b>(B)</b>	0	(D)	١
23	$\bigcirc$	<b>B</b>	<b>(</b>	1	
24	A	$\bigcirc$	(C)	<b>(</b>	
25	A	B	(C)	(D)	
26		B	(C)	(D)	
27	A	B		0	
28	A	B	(C)	0	
29	A		(C)	0	
30	A	8	(C)	0	

 $\bigcirc$ B

B

B

B

B

B

B

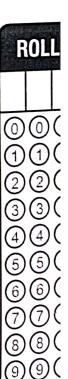
(C)

<b>A</b>		B	(C)
42	$\bigcirc$		0
43	$\bigcirc$	B	<b>(</b>
44	A	B	(C)
45	A	B	
46	A	lacksquare	<b>(</b>
47	A	B	(C)
48	$\bigcirc$	<b>(B)</b>	(C)
49	A	B	
50	A	B	
51	A	B	(C)
52	A	B	(C)
53	$\bigcirc$	$\bigcirc$	0
54	$\bigcirc$	B	(C)
55	A	B	©
56	A	B	©
57	A	B	©
58	A	B	(C)
59	A	B	©
60	A	B	©

## INS

USE BLUE BALL I

- FILL IN BUBBLE EXAMPLE (i): (
- DO NOT FOLD OF
- MULTIPLE RESPI
- PLEASE FILL IN 1
- THE UNIVERSITY ABOVE INSTRUC



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**EXAMINATION** \_

