Human Anatomy 8th Edition Martini Test Bank

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Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

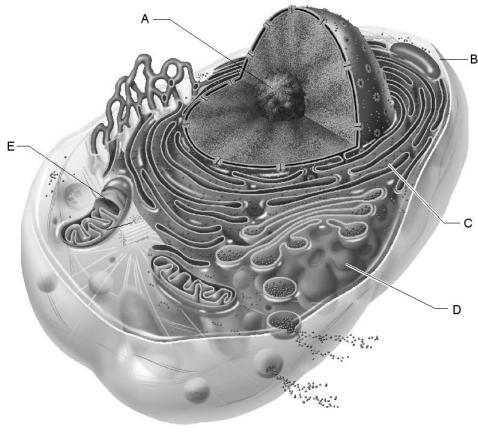


Figure 2.1

Use the diagram above to answer the following questions.

1) Which letter indicates the rough endoplasmic reticulum?

A) A

B) B

C) C

D) D

E) E

1) _____

2) _____

Answer: C Section: 2.1 Book LO: 2.4 Global LO: G1

Bloom's Level: Remembering/Understanding

2) Which letter indicates the nucleolus?

A) A

B) B

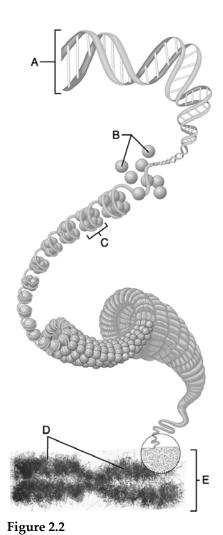
C) C

D) D

E) E

Answer: A Section: 2.1 Book LO: 2.4 Global LO: G1

3) Which letter indicates the plasma membrane?					
A) A	B) B	C) C	D) D	E) E	
Answer: B					
Section: 2.1					
Book LO: 2.4					
Global LO: G1					
Bloom's Level: Re	emembering/Underst	tanding			
4) Which letter ind	licates the mitochor	idrion?			4)
A) A	B) B	C) C	D) D	E) E	,
Answer: E					
Section: 2.1					
Book LO: 2.4					
Global LO: G1					
Bloom's Level: Ro	emembering/Underst	tanding			
5) Which letter ind	licates the Golgi app	oaratus?			5)
A) A	B) B	C) C	D) D	E) E	,
Answer: D					
Section: 2.1					
Book LO: 2.4					
Global LO: G1					



Answer: D

Use the diagram above to answer the following questions.

6) Which letter in	dicates the DNA mole	ecule?			6)
A) A	B) B	C) C	D) D	E) E	
Answer: A					
Section: 2.4					
Book LO: 2.6					
Global LO: G1					
Bloom's Level: I	Remembering/Understa	nding			
7) Which letter in	dicates the chromatid	?			7)
A) A	B) B	C) C	D) D	E) E	

Section: 2.4 Book LO: 2.6 Global LO: G1 Bloom's Level: Remembering/Understanding

8) Which letter indicates a nucleosome?					8)
A) A Answer: C	B) B	C) C	D) D	E) E	
Section: 2.4 Book LO: 2.6 Global LO: G1	nembering/Understa	nding			
O) 1471-1-1-1-1-1-1-1					0)
9) Which letter indic A) A	B) B	C) C	D) D	E) E	9)
Answer: B Section: 2.4 Book LO: 2.6 Global LO: G1	nembering/Understa	nding			
10) Which letter indic	ates the metaphase	chromosome?			10)
A) A	B) B	C) C	D) D	E) E	,
Answer: E Section: 2.4 Book LO: 2.6 Global LO: G1 Bloom's Level: Ren	nembering/Understa	nding			
11) This organelle is in A) Golgi appara B) lysosome C) rough endop D) mitochondri E) peroxisome	atus blasmic reticulum	ion of cellular energ	y.		11)
Answer: D Section: 2.3 Book LO: 2.4 Global LO: G2 Bloom's Level: Ren	nembering/Understa	nding			
12) This organelle is o		ded membranes calle	ed cristae.		12)
A) Golgi appara B) lysosome C) rough endop D) mitochondri E) peroxisome	olasmic reticulum				
Answer: D					
Section: 2.3 Book LO: 2.4 Global LO: G2 Bloom's Level: Ren	nembering/Understa	nding			

13) When a phagocytic white blood cell ingests a foreign bacterial cell, the vesicle fuses with this	13)
organelle.	-
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: B	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Applying/Analyzing	
14) This membranous organelle is the site of protein synthesis for proteins that are secreted by the cell.	14)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: C	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	
45) 771 : 11 1 : 10 : 1 : 1 : 1 : 1	15)
15) This organelle detoxifies a number of toxic substances.	15)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: E	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	
16) Cisternae of this organelle are continuous with the nuclear envelope.	16)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
·	
E) peroxisome	
Answer: C	
Section: 2.3	
Book LO: 2.4	
Global LO: G2 Bloom's Lovel: Applying / Applyzing	
Bloom's Level: Applying/Analyzing	

17) This organelle has both a cis and a trans face.	17)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: A	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Applying/Analyzing	
10) This mannhum are argamalla contains avidess and catalage angreenes	10)
18) This membranous organelle contains oxidase and catalase enzymes.	18)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: E	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Applying/Analyzing	
19) These organelles are often called the "demolition crew" of the cell.	19)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: B	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	
0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
20) This organelle primarily modifies products from the rough ER, and it resembles a stack of hollow	20)
saucers, one cupped inside the next.	
A) Golgi apparatus	
B) lysosome	
· ·	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: A	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	

21) This organelle is primarily a sac of powerful digestive enzymes called acid hydrolases.	21)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: B	
Section: 2.3	
Book LO: 2.4	
Global LO: G2 Rloom's Lovel: Person boxing / Indexet and ing	
Bloom's Level: Remembering/Understanding	
22) This organelle is defective in the inherited disorder Tay–Sachs disease.	22)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: B	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	
23) This organelle is numerous in liver and kidney cells.	23)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: E	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	
24) This organelle produces ATP molecules.	24)
A) Golgi apparatus	
B) lysosome	
C) rough endoplasmic reticulum	
D) mitochondria	
E) peroxisome	
Answer: D	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	

25) This organelle contains	; a single DNA molecule :	and is capable of self-replication.	25)
A) Golgi apparatus			
B) lysosome			
C) rough endoplasm	vic roticulum		
	ne reneurum		
D) mitochondria			
E) peroxisome			
Answer: D			
Section: 2.3			
Book LO: 2.4			
Global LO: G2			
Bloom's Level: Remember	ering/Understanding		
biooni s Eevel. Remembe	sing/onacistaliantg		
26) Mitosis refers only to n	uclear division. Separation	on of the entire cell following mitosis is	26)
	B) meiosis.		
A) telophase.	b) melosis.	C) cytokinesis. D) karyokinesis.	
Answer: C			
Section: 2.5			
Book LO: 2.7			
Global LO: G2			
Bloom's Level: Remembe	ering/Understanding		
27) Phospholipids of the p	lasma membrane are arra	anged	27)
		wiched between the polar heads.	/
B) around a central 1	-	rienea between are point neads.	
The state of the s	•		
	vith polar heads facing or		
D) as a bilayer with	their polar heads sandwi	ched between the nonpolar tails.	
Answer: A			
Section: 2.2			
Book LO: 2.2			
Global LO: G2			
Bloom's Level: Remembe	ering/Understanding		
	Ü		
28) Which of the following	; cytoskeleton elements a	re the largest in diameter?	28)
A) intermediate filar		B) centrioles	,
C) microtubules		D) microfilaments	
•		b) interomanients	
Answer: C			
Section: 2.3			
Book LO: 2.4			
Global LO: G2			
Bloom's Level: Remember	ering/Understanding		
29) Which of the following	; statements about integra	al proteins in the plasma membrane is false?	29)
A) Most extend all the	ne way through the mem	brane.	
		sported through the membrane.	
		the membrane phospholipids.	
	2	the membrane phospholipids.	
D) Some attach to th	e giycocaiyx.		
Answer: C			
Section: 2.2			
Book LO: 2.2			
Global LO: G2			
Bloom's Level: Remember	ering/Understanding		

30) Which type of endocytosis ingests the most	specific type of molecule?	30)	
A) receptor-mediated endocytosis	B) pinocytosis		
C) phagocytosis	D) fluid-phase endocytosis		
Answer: A Section: 2.2 Book LO: 2.3			
Global LO: G2			
Bloom's Level: Remembering/Understanding			
31) Hormones are secreted by		31)	
A) pinocytosis. B) exocytosis.	C) phagocytosis. D) osmosis.		
Answer: B			
Section: 2.2			
Book LO: 2.3			
Global LO: G2			
Bloom's Level: Remembering/Understanding			
32) Of the following, the only organelle that has	s a double membrane structure is the	32)	
A) Golgi apparatus.	B) mitochondrion.		
C) endoplasmic reticulum.	D) centriole.		
Answer: B			
Section: 2.3			
Book LO: 2.4			
Global LO: G2			
Bloom's Level: Remembering/Understanding			
33) Functions of the Golgi apparatus include all	l of the following <i>except</i>	33)	
A) plasma membrane formation.	B) synthesis of lysosomes.	,	
C) production of secretory granules.	D) DNA replication.		
Answer: D	•		
Section: 2.3			
Book LO: 2.4			
Global LO: G2			
Bloom's Level: Applying/Analyzing			
34) Which of the following statements about the	e rough endoplasmic reticulum is false?	34)	
A) It consists of stacked envelopes called		, <u> </u>	
B) It makes the integral proteins of the ce			
C) It stores lipids as inclusions.			
D) It makes the digestive enzymes contain	ined in the lysosomes.		
Answer: C			
Section: 2.3			
Book LO: 2.4			
Global LO: G2			
Bloom's Level: Remembering/Understanding			

35) Which of the following is <i>not</i> a cytoskeleton eleme	ent?	35)
A) intermediate filament	B) microfilament	,
C) centriole	D) microtubule	
Answer: C		
Section: 2.3		
Book LO: 2.4		
Global LO: G2 Bloom's Level: Remembering/Understanding		
bloom's Level. Remembering/Onderstanding		
36) Which type of proteins are required for exocytosis	s?	36)
A) SNARE proteins	B) coatomer proteins	
C) caveolin	D) clathrin	
Answer: A	,	
Section: 2.2		
Book LO: 2.3		
Global LO: G2		
Bloom's Level: Applying/Analyzing		
37) In chromatin, the DNA molecule wraps around p		37)
A) integral protein.	B) codons.	
C) nucleotides.	D) histones.	
Answer: D		
Section: 2.4 Book LO: 2.6		
Global LO: G1		
Bloom's Level: Remembering/Understanding		
38) In the cell life cycle, DNA is replicated during		38)
A) interphase G ₁ . B) interphase S.	C) prophase II. D)) prophase I.
Answer: B		
Section: 2.5		
Book LO: 2.7		
Global LO: G2		
Bloom's Level: Remembering/Understanding		
39) The longest arrays of microtubules that assemble	fuero esch contraccores dervises son	ophase form 39)
filaments called	from each centrosome during pro	59)
A) asters.	B) kinetochores.	
C) mitotic spindle fibers.	D) the nuclear envelope.	
Answer: C	_,	
Section: 2.5		
Book LO: 2.7		
Global LO: G2		
Bloom's Level: Applying/Analyzing		

40) During anaphase, motor proteins attached to mitotic spindle fibers serve to				40)
A) form the aster. B) re–form the nuclear envelope.				
_	plicated chromosomal s			
Answer: C	ı			
Section: 2.5				
Book LO: 2.7				
Global LO: G2				
Bloom's Level: Rememberi	ng/Understanding			
	0			
41) The face of the	Goloi annaratus is	to receive spherical ves	icles from the rough	41)
endoplasmic reticulum.	Goigi apparatas is	to receive spriement ves	icies from the rough	
A) . (1 11 1	B) trans; convex	C) trans; concave	D) cis; convex	
•	b) traits, convex	C) traits, concave	D) cis, convex	
Answer: D				
Section: 2.3				
Book LO: 2.4				
Global LO: G2	and the			
Bloom's Level: Applying/A	naiyzing			
40) 747 1			. 1 11 0	40)
42) Which membranous orga	inelle stores calcium and		etabolism?	42)
A) Golgi apparatus		B) peroxisome		
C) mitochondrion		D) smooth endoplasm	ic reticulum	
Answer: D				
Section: 2.3				
Book LO: 2.4				
Global LO: G2				
Bloom's Level: Applying/A	nalyzing			
43) Which organelle is impor	tant in neutralizing free	radicals?		43)
A) lysosome		B) Golgi apparatus		
C) mitochondrion		D) peroxisome		
Answer: D				
Section: 2.3				
Book LO: 2.4				
Global LO: G2				
Bloom's Level: Rememberi	ng/Understanding			
44) Which of the following st	atements accurately des	scribes the function of the nu	ıclear envelope?	44)
A) transcription of DN	-		•	, <u></u>
B) protein synthesis				
	ge of substances into an	d out of the cell membrane		
D) separation of nucleo	-			
•	r mont and cy to prosint			
Answer: D				
Section: 2.4				
Book LO: 2.6 Global LO: G2				
Bloom's Level: Applying/A	nalyzing			
21001110 20 voi. 11pp1,111g/11				

45) Peroxisomes function to	45)
A) store cellular free radicals.	
B) synthesize and degrade hydrogen peroxide.	
C) regulate membrane permeability.	
D) produce pigments.	
Answer: B	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Remembering/Understanding	
46) Dyneins and kinesins are motor proteins that	46)
A) resist pulling forces that are placed on cells.	· <u></u>
B) move organelles along microtubules through the cytoplasm.	
C) enable a cell to send out and retract extensions called pseudopods.	
D) are molecular components of telomeres.	
Answer: B	
Section: 2.3	
Book LO: 2.4	
Global LO: G2	
Bloom's Level: Applying/Analyzing	
47) Cell division is analogous to	47)
A) a building forming another building by random accumulation of materials.	
B) a building duplicating its blueprint and then forming a new building by splitting in two.	
C) a building forming another building through a loss of some of its parts.	
D) two buildings duplicating their parts and fusing.	
Answer: B	
Section: 2.5	
Book LO: 2.7	
Global LO: G2	
Bloom's Level: Applying/Analyzing	
48) The plasma membrane is important for all the following reasons <i>except</i>	48)
A) it determines what substances enter and exit the cell.	1 0)
B) it is an important site for DNA transcription.	
C) it acts as a site for cell-to-cell interaction and recognition.	
D) it separates the ECF from the ICF.	
•	
Answer: B Section: 2.2	
Book LO: 2.2	
Global LO: G2	
Bloom's Level: Applying/Analyzing	
49) The plasma membrane is composed of all of the following <i>except</i>	49)
A) glycoproteins. B) tubulin protein. C) phospholipids. D) cholesterol.	,
Answer: B	
Section: 2.2	
Book LO: 2.2	
Global LO: G2	

50) Materials that are to	be exocytosed by cells a	are enclosed in vesicles syn	thesized by the	50)
A) mitochondrion	l .	B) nucleosome.		
C) Golgi apparatu	15.	D) ribosome.		
Answer: C				
Section: 2.3				
Book LO: 2.3				
Global LO: G2				
Bloom's Level: Remer	mbering/Understanding			
51) Which of the followi	ing does <i>not</i> pass throug	h nuclear pores?		51)
A) chromatin		B) messenger R	NA	
C) ribosomal RNA	A	D) proteins		
Answer: A				
Section: 2.4				
Book LO: 2.6				
Global LO: G2				
Bloom's Level: Remer	nbering/Understanding			
52) Which of the followi	ing is associated with pr	otein synthesis?		52)
A) chloroplasts	0 1	B) mitochondria	a	, <u> </u>
C) ribosomes		,	plasmic reticulum	
Answer: C		,	1	
Section: 2.3				
Book LO: 2.4				
Global LO: G2				
Bloom's Level: Remen	mbering/Understanding			
53) Ribosomes may be e	ither free within the cyt	oplasm or bound to a mem	nbrane system known as the	e 53)
A) Golgi apparatu		B) cytoskeleton.		,
C) microtubule or		• •	lasmic reticulum.	
Answer: D		, 0 1		
Section: 2.3				
Book LO: 2.4				
Global LO: G2				
Bloom's Level: Remer	mbering/Understanding			
54) Which is <i>not</i> part of	interphase?			54)
A) M	B) G ₁	C) S	D) G ₂	
Answer: A				
Section: 2.5				
Book LO: 2.7				
Global LO: G2				

55) Embedded in the plasma membrane of cells, cholesterol molecules act toA) participate in pinocytosis.B) destabilize the membrane, leading to heart attacks.C) stabilize the membrane.			55)	
D) make the membrane Answer: C Section: 2.2	e more resistant to freezin	g.		
Book LO: 2.2 Global LO: G2 Bloom's Level: Rememberi	ng/Understanding			
56) The endocytotic process i A) pinocytosis.	n which small vesicles of B) xenocytosis.	fluid are brought into the C) exocytosis.	cell is called D) phagocytosis.	56)
Answer: A Section: 2.2 Book LO: 2.3 Global LO: G2 Bloom's Level: Rememberia			71 0 7	
57) The double membrane st	ructure is unique to the			57)
A) nucleolus. Answer: C Section: 2.3 Book LO: 2.4 Global LO: G2 Bloom's Level: Rememberin	B) peroxisome. ng/Understanding	C) mitochondrion.	D) lysosome.	
58) Peroxisomes A) synthesize proteins for use outside the cell. B) are the toxic waste removal system of the cell. C) contain some of the code necessary for their own duplication. D) are involved in the production of ATP.			58)	
Answer: B Section: 2.3 Book LO: 2.4 Global LO: G2 Bloom's Level: Rememberin	•			
59) The stiffest elements of the cytoskeleton, analogous to the bones of the human body, are			n body, are	59)
A) microtubules.C) the cytosol.		B) microfilaments. D) intermediate filame	ents.	
Answer: A Section: 2.3 Book LO: 2.4 Global LO: G2 Bloom's Level: Rememberin	ng/Understanding			

60) The mitotic spindle forms from the		60)
A) nucleus.	B) nucleolus.	
C) Golgi apparatus.	D) centrosome matrix.	
Answer: D		
Section: 2.3		
Book LO: 2.4		
Global LO: G2		
Bloom's Level: Remembering/Understanding		
61) The nuclear envelope is continuous with the A) consists of tubes, like the smooth ER.	rough ER, but it differs from the rough ER in that it	61)
B) has unique pores.		
C) consists of two membranes separated b	y a space.	
D) is not associated with ribosomes.		
Answer: B		
Section: 2.4		
Book LO: 2.4		
Global LO: G2		
Bloom's Level: Applying/Analyzing		
62) Membrane-bound organelles have the same	type of membrane as the plasma membrane <i>except</i>	62)
A) the nonpolar tails face outward.	B) they are all covered with ribosomes.	,
C) for the absence of a glycocalyx.	D) for the absence of cholesterol.	
Answer: C		
Section: 2.3		
Book LO: 2.4		
Global LO: G2		
Bloom's Level: Applying/Analyzing		
63) In the process of phagocytosis, the organelles are the	s whose enzymes break down ingested foreign cells	63)
A) lysosomes.	B) peroxisomes.	
C) smooth endoplasmic reticulum.	D) nucleoli.	
Answer: A	2) nacioni	
Section: 2.3		
Book LO: 2.4		
Global LO: G2		
Bloom's Level: Remembering/Understanding		
64) During mitosis, the kinetochore microtubules	s of the mitatic spindle	64)
A) push the two poles of the cell apart.	of the initotic spinale	O1)
B) push on the chromatids.		
C) anchor the centriole to the cell membrar	ne.	
D) attach to chromatids and align them at		
Answer: D	• •	
Section: 2.5		
Book LO: 2.7		
Clobal I O: C2		

A) wear and tear.		effects of free radicals is primarily a theory of B) cross-linking of glucose.	65)
C) genetically programm Answer: A	ned aging.	D) progressive disorder of immunity.	
Section: 2.6			
Book LO: 2.9 Global LO: G1			
Bloom's Level: Remembering	/Understanding		
	O	he muscles of the body which generate	66)
pseudopodia and contractil	,	•	
A) intermediate filamentsC) microtubules.	S.	B) integral proteins.D) microfilaments.	
Answer: D		D) interomanients.	
Section: 2.3			
Book LO: 2.4			
Global LO: G2	// I . I		
Bloom's Level: Remembering	/Understanding		
67) Transcription of DNA requ	ires the presence of		67)
A) extended chromatin.		B) centrosomes.	
C) nucleosomes.		D) histones.	
Answer: A			
Section: 2.4 Book LO: 2.7			
Global LO: G2			
Bloom's Level: Remembering	/Understanding		
68) The process of cellular agin	g may involve all of t	he following except	68)
A) decreased production	-	B) accumulated damage by free radicals.	
C) progressive shortening	g of telomeres.	D) excessive metabolic rate.	
Answer: A			
Section: 2.6			
Book LO: 2.9 Global LO: G1			
Bloom's Level: Applying/Ana	alyzing		
69) During what phase of mitos A) late prophase	sis does the mitotic sp B) metaphase	oindle break down and disappear? C) telophase D) anaphase	69)
Answer: C	, <u>r</u>	2) with the	
Section: 2.5			
Book LO: 2.7			
Global LO: G2	II In dougless diese		
Bloom's Level: Remembering	/ Onderstanding		

70) The cytoskeletal elements that form a ring to "squeeze" the two daughter cells apart during				70)
cytokinesis are A) the microtrabect C) intermediate fila		B) microfilaments. D) microtubules.		
Answer: B Section: 2.5 Book LO: 2.4 Global LO: G2 Bloom's Level: Rememl	pering/Understanding			
71) During what phase of A) interphase	the cell cycle is the DNA c B) metaphase	luplicated? C) anaphase	D) prophase	71)
Answer: A Section: 2.5 Book LO: 2.7 Global LO: G2 Bloom's Level: Rememl	•	e, arapitate	2) [10]	
B) a membrane con C) a single-layered	e is membrane that surrounds nposed of tiny shelves or co membrane enclosing the p urrounding the cell.	ristae.		72)
Answer: D Section: 2.2 Book LO: 2.2 Global LO: G1 Bloom's Level: Rememl	pering/Understanding			
73) The cell that gathers in A) fat cell.	nformation and controls bo B) sperm cell.	ody functions is a C) macrophage.	D) neuron.	73)
Answer: D Section: 2.6 Book LO: 2.8 Global LO: G1 Bloom's Level: Rememl	pering/Understanding			
74) The temporary structuA) pigments. C) lipid droplets.	ures in the cytoplasm inclu	de all of the following <i>excep</i> B) the Golgi apparatu D) glycosomes.		74)
Answer: B Section: 2.3 Book LO: 2.5 Global LO: G2 Bloom's Level: Rememl	pering/Understanding			

75) Which of the following i	s an inclusion <i>, not</i> an org	anelle?		<i>7</i> 5)
A) mitochondrion	B) microtubule	C) glycosome	D) lysosome	
Answer: C				
Section: 2.3				
Book LO: 2.5				
Global LO: G2 Bloom's Level: Remember	ing/Understanding			
bloom's Level. Remember	nig/Onderstanding			
FALSE. Write 'T' if the stat	ement is true and 'F' if t	he statement is false.		
76) The smooth ER contains	its own molecules of DN	JA.		76)
	False			
Section: 2.3				
Book LO: 2.4 Global LO: G2				
Bloom's Level: Applying/	Analyzing			
117 0	, 0			
77) Hypercholesterolemia is that bind to cholesterol–		which the body's cells lack	the protein receptors	77)
	False			
Section: 2.2	raise			
Book LO: 2.3				
Global LO: G2				
Bloom's Level: Applying/A	Analyzing			
78) Ribosomes consist of two	o subunits, each surroun	ded by a membrane.		78)
Answer: True	False			
Section: 2.3				
Book LO: 2.4				
Global LO: G2 Bloom's Level: Remember	ing/Understanding			
bioont's Level. Remember	mig/Officerstanding			
79) Peroxisomes are importa	nt in detoxification of a	number of toxic substance	es, for instance,	<i>7</i> 9)
hydrogen peroxide.				
	False			
Section: 2.3				
Book LO: 2.4 Global LO: G2				
Bloom's Level: Remember	ing/Understanding			
80) The nucleolus serves as	ha call's ribasama, prad	using machina		80)
•	False	ucing macrime.		00)
Section: 2.4	raise			
Book LO: 2.6				
Global LO: G1				
Bloom's Level: Remember	ing/Understanding			
81) Microtubules are compo	sed of actin.			81)
•	False			· —
Section: 2.3				
Book LO: 2.4				
Global LO: G2	/TT- 1			
Bloom's Level: Remember	ing/Understanding			

82) Chromatin is compos	sed of DNA wound around proteins known as actin.	82)
Answer: True Section: 2.4 Book LO: 2.6 Global LO: G1 Bloom's Level: Remem	• False abering/Understanding	
83) An example of a type	e of cell with high rates of mitosis is a cell of the skin.	83)
Answer: True Section: 2.5 Book LO: 2.8 Global LO: G1 Bloom's Level: Remem	False abering/Understanding	
84) During the S phase, o	cells are characterized by rapid growth.	84)
Answer: True Section: 2.5 Book LO: 2.7 Global LO: G2 Bloom's Level: Remem	False abering/Understanding	
85) During the G ₁ phase	, DNA is replicated in the cytoplasm.	85)
Answer: True Section: 2.5 Book LO: 2.7 Global LO: G2 Bloom's Level: Remem	• False Abering/Understanding	
86) Telomeres are structu	ares that limit the maximum number of times cells can divide.	86)
Answer: True Section: 2.6 Book LO: 2.9 Global LO: G1 Bloom's Level: Remem	False abering/Understanding	
87) Extended chromatin	is tightly wound around histones.	87)
Answer: True Section: 2.4 Book LO: 2.6 Global LO: G1 Bloom's Level: Remem	• False	
88) A mitotic spindle dev	velops during early telophase of mitosis.	88)
Answer: True Section: 2.5 Book LO: 2.7 Global LO: G2 Bloom's Level: Remem	• False abering/Understanding	

	89) During anaphase, the chromosomes are moved to the center of the cell.		89)	
	Answer: True False Section: 2.5 Book LO: 2.7 Global LO: G2 Bloom's Level: Remembering/Understanding			_
	90) Cytokinesis is the physical division of the cytoplasm between the two newly formed cells t result from mitosis.	hat	90)	
	Answer: True False Section: 2.5 Book LO: 2.7 Global LO: G2 Bloom's Level: Remembering/Understanding			
SHC	ORT ANSWER. Write the word or phrase that best completes each statement or answers the qu	iestion.		
	91) This phase is the physical division of the cytoplasm between the two newly formed cells that result from mitosis.	91)		
	Answer: cytokinesis Section: Book LO: Global LO: Bloom's Level:			
	92) What is the transport mechanism by which substances move from the cytoplasm to the outside of the cell?	92)		
	Answer: exocytosis Section: Book LO: Global LO: Bloom's Level:			
	93) Cell aging may be related to production of what charged molecules produced by the mitochondria?	93)		
	Answer: radicals (free radicals) Section: Book LO: Global LO: Bloom's Level:			
	94) Identify the two different types of membrane-associated molecules that comprise the glycocalyx.	94)		
	Answer: glycolipids and glycoproteins Section: Book LO: Global LO: Bloom's Level:			

95) What would extended chromatin wrapped around a group of eight histones be called?	95)
Answer: a nucleosome Section: Book LO:	
Global LO: Bloom's Level:	
96) This is the phase in which a cell grows and carries on all its usual metabolic activities. Answer: G1 phase of interphase Section: Book LO: Global LO: Bloom's Level:	96)
97) These are the smallest living units in the body. Answer: cells Section: Book LO: Global LO: Bloom's Level:	97)
98) This is the outermost continuous boundary of a human cell. Answer: plasma membrane (plasmalemma) Section: Book LO: Global LO: Bloom's Level:	98)
99) This is the name for the currently held theory describing the plasma membrane structure. Answer: fluid mosaic model Section: Book LO: Global LO: Bloom's Level:	99)
100) The phospholipid molecules of the plasma membrane are primarily composed of ———. Answer: a non-polar tail comprised of 2 fatty acid chains attached to a polar head Section: Book LO: Global LO: Bloom's Level:	100)
101) This network of rods running throughout the cytosol acts as a cell's "bones," "muscles," and "ligaments." Answer: cytoskeleton Section: Book LO: Global LO: Bloom's Level:	101)

102) This is the mechanism by which large particles and macromolecules enter a cell.	102)
Answer: endocytosis Section: Book LO: Global LO: Bloom's Level:	
103) This is the diffusion of water molecules across a membrane.	103)
Answer: osmosis Section: Book LO: Global LO: Bloom's Level:	
104) This is the type of protein involved in transport mechanisms across the plasma membrane.	104)
Answer: integral proteins (transmembrane proteins) Section: Book LO: Global LO: Bloom's Level:	
105) This is an inherited disease that leads to an accumulation of undigested glycolipids	105)
especially in the lysosomes of neurons. Answer: Tay-Sachs disease Section: Book LO: Global LO: Bloom's Level:	

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

106) Differentiate phagocytosis from receptor-mediated endocytosis.

Answer: In phagocytosis, the cell extends pseudopods and engulfs the foreign protein/foreign cell, which is often degraded after the phagocytic vesicle fuses with a lysosome. In receptor-mediated endocytosis, specific membrane receptors bind specific extra-cellular molecules. Once bound, the membrane deforms inward, creating a vesicle with the receptors and molecules inside. The vesicle contents are released into the cytoplasm or fuse with a lysosome, with the receptors recycled back to the membrane.

Section: Book LO: Global LO: Bloom's Level:

107) Describe how cellular differentiation results in structural variation among cells in the human body.

Answer: Cellular differentiation is the result of highly regulated gene activation/inactivation in the developing embryo. The products of gene activation are proteins. As the embryo develops, certain cells will begin to produce proteins that neighboring cells do not produce. As development progresses, these unique protein "signatures" lead to differences in cellular function. For example, in muscle cells actin and myosin proteins predominate which results in their unique contractile properties.

Section: Book LO: Global LO: Bloom's Level:

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108) Describe the two checkpoints that occur during interphase.

Answer: The G₁ checkpoint ensures that the cell has reached a maximum size and has replicated the necessary organelles and enzymes to synthesize DNA. The G₂ checkpoint, checks to see whether replication errors or DNA damage has occurred during DNA synthesis.

Section: Book LO: Global LO: Bloom's Level:

109) Describe the mitochondria.

Answer: These are long, thin organelles, that have their own DNA molecule which allows for self-replication. They produce ATP molecules, which are the equivalent of cellular energy. They are bound by two membranes. The inner one is highly folded into cristae, where many of the critical molecules involved in ATP production are imbedded.

Section: Book LO: Global LO: Bloom's Level:

110) Describe the three major types of cytoskeletal elements.

Answer: Microtubules are the largest in diameter and are formed by the protein tubulin. They are stiff, but bendable. Microtubules are important in the trafficking of organelles within the cytoplasm.

Microfilaments are the smallest in diameter. They are strands of the protein actin, are contractile proteins, which are typically very labile. Intermediate filaments are of intermediate diameter. They are very stabile and permanent, functioning to resist shearing forces within and between adjacent cells.

Section: Book LO: Global LO: Bloom's Level: