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Chapter 2: Cell Physiology

MULTIPLE CHOICE

1.	Which componenta. cytosolb. DNAc. flagellumd. plasma membra		'always found	l in a ty	ypical human	cell?
	ANS: C	PTS:	1	REF:	24	BLM: Remember
2.	Which structure is a. ER b. lysosome c. mitochondrion d. nucleolus	NOT lo	ocated in the c	ytosol	of the cell?	
	ANS: D	PTS:	1	REF:	25	BLM: Remember
3.	Which organelle is a. Golgi body b. lysosome c. mitochondrion d. ribosome	NOT c	overed by a n	nembra	ine?	
	ANS: D	PTS:	1	REF:	25	BLM: Remember
4.	 4. Which statement concerning cells is NOT correct? a. Cells serve as the living building blocks of the body. b. The average human cell is about 100 times smaller than the smallest particle visible by the unaided eye. c. Inanimate chemical molecules are organized within each cell into a living ent d. Cells are generally colourless and transparent so they must be stained for visualization under a microscope. 					
	ANS: B	PTS:	1	REF:	23	BLM: Remember
5.	Which statement re a. It serves as a m b. It selectively co c. It contains prote d. It has cholestere ANS: A	echanic ontrols i	cal barrier to he movement of at provide recent extermine the fl	old in molect ptor si	the contents on the between the tes for membrates of the membrates.	of the cell. the ECF and the ICF. Trane functions.

 6. Which statement is correct for the rough endoplasmic reticulum? a. It does not contain ribosomes. b. It synthesizes proteins for export from the cell or for use in construction cellular membrane. c. It is abundant in cells that specialize in lipid metabolism. d. It is abundant in liver cells. 					in construction of a new	
	ANS: B	PTS:	1	REF:	25	BLM: Remember
7.	The rough ER is a a. chromosomes b. lysosomes c. microfilaments d. ribosomes	membra	anous system.	With	what is it asso	ciated?
	ANS: D	PTS:	1	REF:	25	BLM: Remember
8.	Of the organelles b a. mitochondria b. vaults c. peroxisomes d. nuclei	elow, v	vhich occurs i	n the lo	owest number	s within a typical human cell?
	ANS: D	PTS:	1	REF:	24	BLM: Remember
9.	What can be found a. deoxyribonucle b. cytosol c. plasma membra d. endoplasmic re	eic acid				
	ANS: A	PTS:	1	REF:	24	BLM: Remember
10.	 a. They are composed of RNA. b. They assemble polypeptides. c. They may be bound to endoplasmic reticulum. d. They are covered by a membrane. 					
	ANS: D	PTS:	1	REF:	25	BLM: Remember
11.	 Which statement is a. It is most abund b. It gives rise to the in a layer of sm c. It consists of st d. It has many rib 	dant in carransport acts of	cells specializ rt vesicles con R membrane. relatively flat	ed for itaining	protein secret g newly synth	ion. esized molecules wrapped
	ANS: B	PTS:	1	REF:	25	BLM: Remember

12.	Which structure is a. Golgi complex b. smooth ER c. transport vesich d. lysosomal men	es	ssociated with	the se	cretion of pro	teins produced by ER?
	ANS: D	PTS:	1	REF:	25	BLM: Remember
13.	Which statement is a. It sorts and direct b. It modifies protoc. It produces sected. It is responsible.	ects pro teins ch retory v	ducts to their emically. vesicles.	final d		ex?
	ANS: D	PTS:	1	REF:	53	BLM: Remember
14.	Which of the followa. They contain pole. They generate loc. They remove u.d. They attack for	owerful hydrogo seless p	I hydrolytic er en peroxide. parts of the cel	nzymes	3.	ans of endocytosis.
	ANS: B	PTS:	1	REF:	25	BLM: Remember
15.	Which of the follow plasma membrane? a. endocytosis b. exocytosis c. phagocytosis d. pinocytosis	_	fers to extrusi	on of n	naterials to the	e exterior of the cell through the
	ANS: B	PTS:	1	REF:	53	BLM: Remember
16.	Which of the followare brought in? a. exocytosis b. pinocytosis c. receptor-media d. phagocytosis			m of er	ndocytosis in v	which whole cells such as bacteria
	ANS: D	PTS:	1	REF:	51	BLM: Remember
17.	What does the SNA a. recognition of the binding of correct means to delive the d. receptor-media	foreign ect enzy er vesic	proteins in the yme with corr les to an appro	e cell ect sub		
	ANS: C	PTS:	1	REF:	53	BLM: Higher Order

18.	a. They have anb. They possessc. They are the s	inner fluid filled their own DNA. ite for cell respi			
	ANS: A	PTS: 1	REF: 25	BLM: Remember	
19.	Where do the citria. cytoplasm b. cytosol c. inner-mitocho d. mitochondrial	ndrial membran			
	ANS: D	PTS: 1	REF: 27	BLM: Remember	
20.	What accounts for a. Kreb's cycle b. citric acid cyc c. NADH d. electron transp	le	production? ve phosphorylation		
	ANS: D	PTS: 1	REF: 26	BLM: Higher Order	
21.	In aerobic respirate a. during glycoly b. in the electron c. during Kreb's d. during fermen	ysis transport chain cycle	he cells, where is CO_2 re	eleased?	
	ANS: C	PTS: 1	REF: 31	BLM: Higher Order	
22.	 a. Glucose would not be able to be cleaved. b. Available FAD would decrease. c. When the 3-carbon chain is oxidized in glycolysis, electrons would not be able be captured. d. Only fermentation would be possible. 				
	ANS: C	PTS: 1	REF: 27	BLM: Higher Order	
23.	What is the carbona. NADH b. ATP c. pyruvic acid d. FADH ₂	n-based end pro	duct (chain) of glycolysi	is?	
	ANS: C	PTS: 1	REF: 27	BLM: Higher Order	

24.	Why does anaerobia. to continue releb. to prevent cell oc. to make use of ad. to prevent protes	asing a leath availab	it least some e				nerate ATP
	ANS: A	PTS:	1	REF:	31	BLM: H	ligher Order
25.	What does chemios a. releases CO ₂ b. extracts energy c. reduces NAD d. ferments pyruvi	from a	n H ⁺ concentr	ration g	gradient		
	ANS: B	PTS:	1	REF:	30	BLM: H	ligher Order
26.	Which statement is a. They are "circub. They are made c. They deliver end. They do not need."	its" for of prote ergy to	small amoun eins. cytochrome	ts of el to pum	ectricity to pa	ss throug	
	ANS: C	PTS:	1	REF:	29	BLM: H	ligher Order
27.	Where are cristae for a. lysosome b. mitochondrion c. nucleolus d. nucleus	ound?					
	ANS: B	PTS:	1	REF:	25	BLM: F	Remember
28.	Which of the followa. ATP/high-energy b. electron transports. glycolysis/anaed. pyruvic acid/fiv	gy bond ort chai robic	ds n/mitochondr		ciation?		
	ANS: D	PTS:	1	REF:	26	BLM: H	ligher Order
29.	Which statement is a. Oxygen is plent b. The degradation c. Mitochondrial pd. It produces a hi	y. n of glu process gh yiel	ncose cannot pring of nutriend of oxygen n	oroceed t molecul	l beyond glycocules takes pla les.	ace.	lannan kar
	ANS: B	PTS:	1	REF:	31	RTW: k	Remember

30.	What is the univera. ATPb. glucosec. glycogend. insulin	sal ener	gy currency in	n cells?	?	
	ANS: A	PTS:	1	REF:	24	BLM: Remember
31.	Which statement ra. It occurs in the b. Carbon dioxid c. Several ATP rd. Acetyl CoA ar	e mitoch e is rele nolecule	ondrial matrix ased. es are produce	k. d for e	ach cycle.	
	ANS: C	PTS:	1	REF:	27	BLM: Remember
32.	Which molecule da. acetyl CoA b. adenosine dipl c. citric acid d. oxaloacetic ac	nosphate		c acid	cycle?	
	ANS: A	PTS:	1	REF:	27	BLM: Remember
33.	What is the function as to act enzymath b. to build members to carry hydrous d. to synthesize A	ically ranes gen	ΓP synthase?			
	ANS: D	PTS:	1	REF:	29	BLM: Remember
34.	Which statement is a. It is an energy b. It plays a role c. It is used in gl. d. It is used in the	carrier. in cellul ycolysis	ar respiration			
	ANS: A	PTS:	1	REF:	29	BLM: Higher Order
35.	What is the purpose a. to produce citr b. to liberate ene c. to produce larg d. to trap energy	ric acid rgy fron ge numb	n glucose pers of ATP			
	ANS: B	PTS:	1	REF:	26	BLM: Remember

36.	a. in the blood b. with carbon d c. with oxygen d. without carbo	ioxide			
	ANS: C	PTS: 1	REF: 26	BLM: Remember	
37.	a. They may playb. Their shape re	y a role in drug re esembles octagona ler than ribosome	esistance. al barrels.		
	ANS: C	PTS: 1	REF: 25	BLM: Remember	
38.	Which element is a. inclusions b. intermediate f c. microfilament d. microtubular l	ilaments	e cytoskeleton?		
	ANS: A	PTS: 1	REF: 25	BLM: Remember	
39.	 Which statement is correct regarding the bending movements of cilia and flagella a. They are accomplished by alternate solation and gelation of the cytosol. b. They involve the alternate assembly and disassembly of actin filaments. c. They are produced by the sliding of adjacent microtubule doublets past one another. d. They are important in providing motility for many organisms but are not of ar use in humans. 				
	ANS: C	PTS: 1	REF: 25	BLM: Remember	
40.	Which organellesa. peroxisomes ab. mitochondriac. lysosomes andd. ribosomes and	and lysosomes and nucleus l vaults	e enzymes?		
	ANS: A	PTS: 1	REF: 25	BLM: Remember	
41.	b. It always requc. It takes place	nolecules of ATP ires oxygen. in the mitochondr	for each molecule of		
	AND. A	110. 1	KLI. 20	DEM. Higher Order	

42.	mitochondrio	ydrogen n. by the fl ly conve	ions from the ow of hydrogerts ATP to Al	matrix en ions		embrane space of the rmembrane space to the
	ANS: B	PTS:		REF:	29	BLM: Remember
43.	Which statement: a. It converts AI b. It is found in t c. It is a hydroge d. It is found in t	OP + Pi the cytosen carrier	o ATP. ol. r molecule.			
	ANS: C	PTS:	1	REF:	27	BLM: Remember
44.	Which of the folloa. duplication of b. enzymatic reg c. storage of fat d. synthesis of p.	chromo ulation o and glyc	somes of intermediar ogen	y meta		
	ANS: A	PTS:	1	REF:	25	BLM: Remember
45.	What is the functi a. to maintain as b. to suspend and c. to provide cell d. to serve as me	ymmetri d functic lular con	cal cell shape onally link the tractile syster	s larges		elements and organelles
	ANS: B	PTS:	1	REF:	25	BLM: Remember
46.	 Which of the following is NOT true of the cytoskeleton? a. It supports the plasma membrane and is responsible for the particular shape, rigidity, and spatial geometry of each different cell type. b. It probably plays a role in regulating cell growth and division. c. Its elements are all rigid and permanent structures. d. It is responsible for cell contraction and cell movements. 					ision.
	ANS: C	PTS:	1	REF:	34	BLM: Remember
47.	In which cells are a. epithelial cells b. muscle cells c. nerve cells d. red blood cells	S	d myosin fila	ments (commonly fou	ınd?
	ANS: B	PTS:	1	REF:	24	BLM: Remember

48.	 Which statement regarding microfilaments is NOT correct? a. They serve as mechanical stiffeners for microvilli. b. They are composed of actin subunits. c. They are the smallest elements of the cytoskeleton. d. They form mitotic spindles. 						
	ANS: D	PTS:	1	REF:	25	BLM:	Remember
49.	Which of the follow a. They comprise a b. They are import c. They comprise a d. They comprise a	mitotic tant in c cilia.	spindles. cell regions su				
	ANS: B	PTS:	1	REF:	25	BLM:	Remember
50.	 Which statement is a. The number of a particular cell ty b. DNA is enclose c. The mitochondri d. Mitochondria D 	mitochoype. Ed within	ondria per cel in the cell nuc A in our cells	leus an are cop	nd mitochondr pies of our par	ia.	nergy needs of each
	ANS: C	PTS:	1	REF:	25	BLM:	Higher Order
51.	Which of the follow a. lysosome b. ribosome c. mitochondrion d. perioxisomes	ving or	ganelles is NC	OT mer	nbrane-bound	!?	
	ANS: B BLM: Remember	PTS:	1	REF:	25	OBJ:	Remember
TRUI	E/FALSE						
1.	Electron microscop	es are a	about 100 time	es mor	e powerful tha	an light	t microscopes.
	ANS: T	PTS:	1				
2.	DNA's genetic code	e is traı	nscribed into 1	nessen	ger RNA.		
	ANS: T	PTS:	1				
3.	The cytosol is the g	el-like	mass of the c	ytoplas	sm.		
	ANS: T	PTS:	1				

4.	DNA in the nucleus has the genetic instructions to make enzymatic proteins.
	ANS: T PTS: 1
5.	The nucleus indirectly governs most cellular activities by directing the kinds and amounts of various enzymes and other proteins that are produced by the cell.
	ANS: T PTS: 1
6.	The rough endoplasmic reticulum is most abundant in cells specialized for protein secretion, whereas smooth endoplasmic reticulum is abundant in cells that specialize in lipid metabolism.
	ANS: T PTS: 1
7.	Proteins synthesized by the endoplasmic reticulum become permanently separated from the cytosol as soon as they have been synthesized.
	ANS: T PTS: 1
8.	RER is most abundant in cells specialized for steroid production.
	ANS: F PTS: 1
9.	The Golgi complex is functionally connected to the ER.
	ANS: T PTS: 1
10.	The endoplasmic reticulum is one continuous organelle consisting of many tubules and cisternae.
	ANS: T PTS: 1
11.	The lysosomes are one site of protein synthesis.
	ANS: F PTS: 1
12.	The smooth ER specializes in protein metabolism.
	ANS: F PTS: 1
13.	Secretory vesicles are released to the exterior of the cell by means of the process of phagocytosis.
	ANS: F PTS: 1
14.	Secretory vesicles are about 200 times larger than transport vesicles.
	ANS: T PTS: 1

15.	Coated vesicles end budding off.	close a	representative mixture of proteins present in the Golgi sac before
	ANS: F	PTS:	1
16.	All cell organelles	are ren	ewable.
	ANS: T	PTS:	1
17.	Mitochondria are p	resuma	ably descendants of primitive bacterial cells.
	ANS: T	PTS:	1
18.	Endocytosis can be	e accom	aplished by phagocytosis and pinocytosis.
	ANS: T	PTS:	1
19.	Phagocytosis is a s	pecializ	zed form of endocytosis used for bringing in extracellular fluids.
	ANS: F	PTS:	1
20.	The peroxisomes n	nainly g	generate hydrogen peroxide.
	ANS: T	PTS:	1
21.	Glycolysis generate	es ATP	from glucose with high efficiency.
	ANS: F	PTS:	1
22.	ATP synthase is lo	cated ir	the inner mitochondrial membrane.
	ANS: T	PTS:	1
23.	Most intermediary	metabo	olism is accomplished in the cytosol.
	ANS: T	PTS:	1
24.	Oxidative phospho	rylation	n generates the most ATP per glucose molecule.
	ANS: T	PTS:	1
25.	Dynein is a mitoch	ondrial	enzyme.
	ANS: F	PTS:	1
26.	Cytokinesis is the	division	of the nucleus during mitosis.
	ANS: F	PTS:	1

27.			eccomplished by transitions of the cytosol between a gel and a solid e assembly and disassembly respectively of actin filaments.
	ANS: T	PTS:	1
28.	-	-	f outer layer of skin is formed by the tough skeleton of the micro ists after the surface skin cells die.
	ANS: F	PTS:	1
29.	Cilia in the respondence of the airways.	oiratory tra	ct beat in the same direction to sweep inspired particles up and out
	ANS: T	PTS:	1
30.	Hockey is a win	nter sport t	hat uses only aerobic energy supply.
	ANS: F	PTS:	1
31.	Lack of aerobic blood pressure.		an have negative health implications, such as heart disease and high
	ANS: T	PTS:	1
COM	PLETION		
1.			ons of a cell are the, the and the
	ANS: plasma membra nucleus, cytopl cytoplasm, plas	asm, plasm	na membrane
	PTS: 1		
2.			all of the cells of the body is known collectively as and the fluid outside the cells is referred to as
	ANS: introcally	ular fluid a	extracellular fluid
		uiai iiuiu, e	Auguniai Huiu
	PTS: 1		

3.	The two major parts of the cell's interior are the and the
	ANS: nucleus, cytoplasm cytoplasm, nucleus
	PTS: 1
4.	RNA carries amino acids to the sites of protein synthesis in the cell.
	ANS: Messenger
	PTS: 1
5.	The ER is the central packaging and discharge site for molecules to be transported from the ER.
	ANS: smooth
	PTS: 1
6.	The signal-recognition protein recognizes both the on the ribosome and the on the ER then delivers the proper ribosome to the proper site on the rough ER for binding.
	ANS: leader sequence, ribophorin
	PTS: 1
7.	Insulin is a long chain.
	ANS: polypeptide
	PTS: 1
8.	The ribosomes of the rough ER synthesize, whereas its membranous walls contain enzymes essential for the synthesis of
	ANS: proteins, lipids
	PTS: 1
9.	The sarcoplasmic reticulum storesions.
	ANS: calcium
	PTS: 1

10.	Products destined for intracellular transport are packaged in, whereas products for export are packaged in			
	ANS: coated vesicles, secretory vesicles			
	PTS: 1			
11.	refers to the process of an intracellular vesicle fusing with the plasma membrane, then opening and emptying its contents to the exterior.			
	ANS: exocytosis			
	PTS: 1			
12.	is a protein responsible for pinching off an endocytic vesicle.			
	ANS: Dynamin			
	PTS: 1			
13.	Foreign material to be attacked by lysosomal enzymes is brought into the cell by the process of			
	ANS: endocytosis			
	PTS: 1			
14.	Lysosomes contain enzymes that are capable of digesting and removing unwanted debris from the cell.			
	ANS: hydrolytic			
	PTS: 1			
15.	Lysosomes that have completed their digestive activities are known as			
	ANS: residual bodies			
	PTS: 1			
16.	, an enzyme found in peroxisomes, decomposes potentially toxic hydrogen peroxide.			
	ANS: Catalase			
	PTS: 1			

17.	ADP and P ₁ are formed from the breakdown of the molecule
	ANS: adenosine triphosphate ATP
	PTS: 1
18.	refers collectively to the large set of intracellular chemical reactions that involve the degradation, synthesis, and transformation of small organic molecules.
	ANS: Intermediary metabolism
	PTS: 1
19.	The decomposition of hydrogen peroxide produces and molecules.
	ANS: water, oxygen oxygen, water
	PTS: 1
20.	is a peroxisomal enzyme that breaks down hydrogen peroxide.
	ANS: Catalase
	PTS: 1
21.	One glucose molecule is converted into two molecules of by the end of glycolysis.
	ANS: pyruvic acid
	PTS: 1
22.	The metabolism of acetyl CoA into the citric acid cycle depends on the availability of for the cell.
	ANS: oxygen
	PTS: 1
23.	The chemiosmotic mechanism involves the transport of hydrogen across the membrane of the
	ANS: mitochondrion
	PTS: 1

24.	Adipose tissue stores
	ANS: fat
	PTS: 1
25.	are the dominant structural and functional components of cilia and flagella.
	ANS: Microtubules
	PTS: 1
26.	Microfilaments are composed of the protein
	ANS: actin
	PTS: 1
27.	One of the diseases caused by neurofilament abnormalities is
	ANS: amyotropic lateral sclerosis
	PTS: 1
28.	A cilium or flagellum originates from the, a structure in the cell.
	ANS: basal body
	PTS: 1

MATCHING

Indicate which of the characteristics applies to each item by using the answer code (options may be used more than once or not at all).

- a. glycolysis
- b. citric acid cycle
- c. oxidative phosphorylation
- 1. directly uses inspired oxygen
- 2. does not directly use inspired oxygen
- 3. takes place in the cytosol
- 4. takes place in the mitochondrial matrix
- 5. takes place on the inner mitochondrial membrane
- 6. low yield of ATP
- 7. high yield of ATP

1.	ANS:	C	PTS:	1
2.	ANS:	A	PTS:	1
3.	ANS:	A	PTS:	1
4.	ANS:	В	PTS:	1
5.	ANS:	C	PTS:	1
6.	ANS:	A	PTS:	1
7.	ANS:	C	PTS:	1

Complete the sentences by matching the appropriate vesicle(s) by using the answer code (options may be used more than once or not at all).

- a. transport vesicles
- b. coated vesicles
- c. secretory vesicles
- 8. originate from the Golgi complex
- 9. originate from the endoplasmic reticulum
- 10. contain newly synthesized molecules
- 11. contents emptied to the exterior by exocytosis
- 12. enclosed in a clathrin framework
- 13. fuse with and enter the Golgi complex
- 14. contents become concentrated over time
- 15. contents are unloaded at a specific intracellular compartment

8.	ANS:	В	PTS:	1
9.	ANS:	A	PTS:	1
10.	ANS:	A	PTS:	1
11.	ANS:	C	PTS:	1
12.	ANS:	В	PTS:	1
13.	ANS:	A	PTS:	1
14.	ANS:	C	PTS:	1
15.	ANS:	В	PTS:	1

Match the term to its description by using the answer code (options may be used more than once or not at all).

- a. plasma membrane
- b. nucleus
- c. cytoplasm
- d. cytosol
- e. organelles
- f. cytoskeleton
- 16. houses the cell's DNA
- 17. responsible for cell shape and movement
- 18. highly organized membrane-bound intracellular structures
- 19. selectively controls movement of molecules between the intracellular fluid and the extracellular fluid
- 20. consists of organelles and cytosol
- 21. site of intermediary metabolism
- 22. permit incompatible chemical reactions to occur simultaneously in the cell
- 23. separates contents of the cell from its surroundings
- 24. site of fat and glycogen storage

16.	ANS:	В	PTS:	1
17.	ANS:	F	PTS:	1
18.	ANS:	E	PTS:	1
19.	ANS:	A	PTS:	1
20.	ANS:	C	PTS:	1
21.	ANS:	D	PTS:	1
22.	ANS:	E	PTS:	1
23.	ANS:	A	PTS:	1
24.	ANS:	D	PTS:	1

Match the term to its description by using the answer code (options may be used more than once or not at all).

- a. ER
- b. Golgi complex
- c. lysosome
- d. peroxisome
- e. mitochondrion
- f. vault
- g. free ribosome
- h. microtubule
- i. microfilament
- 25. contains powerful oxidative enzymes important in detoxifying various wastes
- 26. an important component of cilia and flagella
- 27. one continuous extensive organelle consisting of a network of tubules and flattened filament
- 28. removes unwanted cellular debris and foreign material
- 29. the powerhouse of the cell
- 30. acts as a mechanical stiffener
- 31. synthesizes proteins for use in the cytosol
- 32. consists of stacks of flattened sacs
- 33. shaped like an octagonal barrel
- 25. ANS: D PTS: 1 26. ANS: H PTS: 1 27. ANS: A PTS: 1 28. ANS: C PTS: 1 29. ANS: E PTS: 1 30. ANS: I PTS: 1 31. ANS: G PTS: 1 32. ANS: B PTS: 1 33. ANS: F PTS: 1

Match the term to its description by using the answer code (options may be used more than once or not at all).

- a. flagella
- b. cilia
- c. microvilli
- 34. hair-like motile protrusions
- 35. increase the surface area of the small intestine epithelium
- 36. sweep mucus and debris out of respiratory airways
- 37. increase the surface area of the kidney tubules
- 38. enable sperm to move
- 39. whip-like appendages
- 40. guide egg to oviduct

34.	ANS:	В	PTS:	1
35.	ANS:	C	PTS:	1
36.	ANS:	В	PTS:	1
37.	ANS:	C	PTS:	1
38.	ANS:	A	PTS:	1
39.	ANS:	A	PTS:	1
40.	ANS:	В	PTS:	1

Match the term to its description by using the answer code (options may be used more than once or not at all).

- a. microtubules
- b. microfilaments
- c. intermediate filaments
- d. microtrabecular lattice
- 41. the largest of the cytoskeletal elements
- 42. present in parts of the cell subject to mechanical stress
- 43. smallest element visible with a conventional electron microscope
- 44. consist of actin
- 45. organizes the glycolytic enzymes in a sequential alignment
- 46. form the mitotic spindle
- 47. essential for creating and maintaining an asymmetrical cell shape
- 48. composed of tubulin
- 49. provide a pathway for axonal transport
- 50. visible only with a high-voltage electron microscope
- 51. play(s) a key role in muscle contraction
- 52. slide past each other to cause ciliary bending
- 41. ANS: A PTS: 1 42. ANS: C PTS: 1 43. ANS: B PTS: 1 44. ANS: B PTS: 1 45. ANS: D PTS: 1 46. ANS: A PTS: 1 47. ANS: A PTS: 1 48. ANS: A PTS: 1 49. ANS: A PTS: 1 50. ANS: D PTS: 1 51. ANS: B PTS: 1 52. ANS: A PTS: 1

	Chapter 2: Cell Physiology
	Match the cellular protein with the correct characteristic by using the answer code. a. dynamin b. tubulin c. kinesin d. actin e. ribophorin
54.55.56.	comprises intermediate filaments
54. 55. 56.	ANS: A PTS: 1 ANS: E PTS: 1 ANS: D PTS: 1 ANS: B PTS: 1 ANS: C PTS: 1
ESSA	\mathbf{Y}
1.	Describe the pathway that newly synthesized polypeptides take en route for secretion.
	ANS: Student responses will vary. PTS: 1
2.	Describe aerobic cellular respiration from a mechanistic point of view.
	ANS: Student responses will vary. PTS: 1
3.	How is ATP synthesized via electron transport and oxidative phosphorylation?
	ANS: Student responses will vary.
	PTS: 1
4.	Describe the major aspects of the cytoskeleton.
	ANS:

Student responses will vary.

PTS: 1

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5. Describe the structure and function of cilia and flagella.

ANS:

Student responses will vary.

PTS: 1

PROBLEM

1. Michael is using the electron microscope at the hospital to review the structures of skeletal muscle cells. He notices that the skeletal muscle cells have many nuclei and are loaded with mitochondria. Why is this so?

ANS:

Student responses will vary.

PTS: 1

SHORT ANSWER

1. Describe the differences between rough ER and smooth ER.

ANS:

Student responses will vary.

PTS: 1