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Chapter 03-A: Anatomy of Cells

Test Bank

TRUE/FALSE

1. The longest extension of a nerve cell can be almost a foot long.

ANS: F DIF: Application REF: Page 67

TOP: Functional Anatomy of Cells

2. An important function of the cell membrane is the maintenance of cell integrity.

ANS: T DIF: Synthesis REF: Page 69 (Table 3-3)

TOP: Cell Membrane

3. Peroxisomes contain enzymes that detoxify harmful substances.

ANS: T DIF: Memorization REF: Page 77

TOP: Peroxisomes

4. The outer portion of the cell membrane is hydrophobic, or water-loving.

ANS: F DIF: Memorization REF: Page 70

TOP: Cell Membrane

5. Ribosomes attached to the endoplasmic reticulum are responsible for making proteins to be exported out of the cell.

ANS: T DIF: Memorization REF: Page 73

TOP: Endoplasmic Reticulum

6. The functions of the nucleus are regulated by RNA.

ANS: F DIF: Memorization REF: Page 78

TOP: Nucleus

7. The major direct cell connections are tight junctions, gap junctions, and desmosomes.

ANS: T DIF: Memorization REF: Page 83|Page

84

TOP: Cell Connections

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8.	Tight junctions do not allow molecules to spread through the cracks between cells.						
	ANS: TOP:	T Cell Connecti		Memorization	REF:	Page 84	
9.	Gap junctions are found in the small intestine. They allow molecules to flow between cells.						
		F Cell Connecti		Memorization	REF:	Page 84	
10.	The nu	mber of mitoc	hondria	in a cell is basically related to its deg	gree of c	cell activity.	
	ANS: TOP:	T Mitochondria	DIF:	Memorization	REF:	Page 77	
11.	The ce	ll's internal su	pporting	g framework is called the cytoskeleton	ı.		
	ANS: TOP:	T Cytoskeleton	DIF:	Memorization	REF:	Page 79	
12.	The size		ıcleolus	s is indirectly related to the amount of	protein	the cell	
	ANS: TOP:	T Nucleus	DIF:	Memorization	REF:	Page 79	
13.	Heart i		e joined	by gap junctions to facilitate the mo	vement	of electrical	
	ANS: TOP:	T Cell Connecti		Memorization	REF:	Page 84	
14.	Cell co	onnections calle	ed <i>desm</i>	osomes are like Velcro holding cells	togethe	r.	
	ANS: TOP:	T Cell Connecti		Memorization	REF:	Page 83	
15.	Cilia a	re longer and n	nore nu	merous than flagella.			
	ANS: TOP:	F Cell Extension		Memorization	REF:	Page 83	
16.	The nu	cleolus is mad	e up of	tightly coiled DNA.			
	ANS:	F	DIF:	Memorization	REF:	Page 78	

	TOP:	Nucleus						
17.	The th	innest cell fibe	rs are ti	ny, hollow tub	es calle	d microtubules		
		F Cell Fibers	DIF:	Memorization	1		REF:	Page 80
18.	The pl	asma membrar	ie can b	e described as	a doubl	e layer of phos	pholipic	l molecules.
	ANS: TOP:	T Cell Membran	DIF:	Synthesis	REF:	Page 70 Page	71	
19.	Genera	ally, the more a	ictive a	cell is, the few	er mito	chondria it will	contair	1.
	ANS:	F	DIF:	Application	REF:	Page 77	TOP:	Mitochondria
20.	Cell fil	bers that are co	mposed	l of twisted pro	otein stra	ands describes	microtu	bules.
	ANS: TOP:	F Cell Fibers	DIF:	Memorization	1		REF:	Page 80
21.	The "ty	ypical" cell des body.	scribed	in this chapter	is very	similar to most	of the o	cells in the
	ANS: TOP:	F The Typical C	DIF: Cell	Memorization	1		REF:	Page 68
22.	The wa	atery fluid in th	ne cell is	s called cytosol	<i>!</i> .			
	ANS: TOP:	T Cell Structure	DIF:	Memorization	1		REF:	Page 69
23.	Water-	-soluble substa	nces eas	sily pass throug	gh the co	ell membrane.		
	ANS: TOP:	F Cell Membran	DIF:	Memorization	1		REF:	Page 71
24.	Glycop	proteins on the	cell me	mbrane identif	y the ce	ell as "self."		
	ANS:	T	DIF:	Application	REF:	Page 72	TOP:	Cell Membrane
25.	Rough	endoplasmic r	eticulur	n looks rough	because	there are mito	chondri	a attached to it.

REF: Page 73

DIF: Memorization

ANS: F

TOP: Endoplasmic Reticulum

26.		Proteins in the cell membrane can control the movement of material through the cell membrane.							
		T Cell Membrar		Memorization	REF:	Page 72			
27.		h endoplasmic hout the cell.	reticulu	m is the organelle that supplies mem	brane m	naterial for use			
	ANS:	T	DIF:	Memorization	REF:	Page 73 Page			
		Endoplasmic	Reticulı	ım					
28.	Riboso	omes are only f	ound at	tached to endoplasmic reticulum.					
		F Ribosomes	DIF:	Memorization	REF:	Page 74			
29.	The m	ain function of	the ribo	osome is to provide energy to the cell.					
		F Ribosomes	DIF:	Memorization	REF:	Page 74			
30.	The G	olgi apparatus l	nelps to	prepare material for export from the	cell.				
		T Golgi Appara		Memorization	REF:	Page 74			
31.	The pr	otein-processir	ng units	of the Golgi apparatus are called cist	erna.				
		T Golgi Appara	DIF: tus	Memorization	REF:	Page 74			
32.	Lysoso	omes can be cal	lled the	"garbage disposals" of the cell.					
	ANS: TOP:	T Lysosomes	DIF:	Memorization	REF:	Page 76			
33.	The ca	talase in the pe	roxison	nes reacts to detoxify carbon dioxide.					
	ANS: TOP:	F Peroxisomes	DIF:	Memorization	REF:	Page 77			
34.	The in	ner folds of the	mitoch	ondria are called cisterna.					
	ANS:	F	DIF:	Memorization	REF:	Page 77			

\mathbf{T}	P:	1 1		1	1 : .
11	JP:	IVI	шос	пот	ndria

35. It is likely that a muscle cell would have more mitochondria than a fat cell.

ANS: T DIF: Application REF: Page 77 TOP: Mitochondria

36. One of the main functions of the mitochondria is to supply the cell with ATP.

ANS: T DIF: Memorization REF: Page 77

TOP: Mitochondria

37. The name *nucleus* comes from the Greek word for color.

ANS: F DIF: Memorization REF: Page 78

TOP: Nucleus

38. Chromosomes and chromatin are both forms of DNA.

ANS: T DIF: Application REF: Page 78 TOP: Nucleus

39. Microtubules are sometimes called the engines of the cell.

ANS: T DIF: Memorization REF: Page 80

TOP: Cell Fibers

40. The body of a female does not produce cells with flagella.

ANS: T DIF: Application REF: Page 83 TOP: Cell

Extensions

41. Schleiden and Schwann were the first scientists to see cells.

ANS: F DIF: Memorization REF: Page 67

TOP: Introduction

42. The largest human cell is the female ovum or egg cell.

ANS: T DIF: Memorization REF: Page 67

TOP: Functional Anatomy of Cells

43. Another term for cytosol is intracellular fluid.

ANS: T DIF: Memorization REF: Page 69

TOP: Cell Structure

44. The fluid mosaic model describes the chromatin material found in the nucleus.

		F Cell Membrar		Memorization	REF:	Page 70
45.		nction of the s attration in the c		endoplasmic reticulum is to help main terior.	ntain a l	ow Ca ⁺⁺
		T Endoplasmic		Memorization um	REF:	Page 74
1 6.	A majo	or part of ribos	omes is	deoxyribonucleic acid.		
		F Ribosomes	DIF:	Memorization	REF:	Page 74
1 7.	The pr	oteasomes con	tain enz	symes that assist in protein synthesis.		
		F Proteasomes	DIF:	Memorization	REF:	Page 76
48.	Protea	somes only des	stroy ab	normal or misfolded proteins in the c	ell.	
		F Proteasomes	DIF:	Memorization	REF:	Page 76
1 9.	Small	proteins called	ubiquit	ins assist the proteasomes in accomp	lishing 1	their function.
		T Proteasomes	DIF:	Memorization	REF:	Page 76
50.	_	ganelle called a ules to and from		composed of RNA and protein, functional cleus.	ons to s	shuttle
	ANS: 3-2)	T	DIF:	Memorization	REF:	Page 79 (Box
	/	Vaults				
51.	An ang	gstrom is large	r than a	nanometer.		
	ANS: REF:	F Page 67 (Tab		Memorization TOP: Units of Size		
52.	Two ty		ohospho	lipids and cholesterol, are important	molecu	les in the cell
	ANS:	Т	DIF:	Memorization	REF:	Page 71

	TOP:	Cell Membrar	ne					
53.	Rafts a	are stiff groupir	ngs of m	nembrane mole	cules th	nat are rich in c	holester	ol.
	ANS: TOP:	T Membrane Str	DIF:	Memorization	1		REF:	Page 71
54.	Hormo	ones attach to sp	pecial c	holesterol mole	ecules is	n the cell mem	brane.	
	ANS: TOP:	F Membrane Fu	DIF:	Memorization	1		REF:	Page 72
55.	Three	ribosomal subu	ınits mu	st come togeth	er to fo	rm a functionii	ng ribos	ome.
	ANS: TOP:	F Ribosomes	DIF:	Memorization	1		REF:	Page 74
56.	-	ribosomes can acture is called			NA stra	and at the same	time; w	hen this occurs,
	ANS: TOP:	T Ribosomes	DIF:	Memorization	1		REF:	Page 74
57.	A com	plete ribosome	only ex	xists when it is	making	g a protein.		
	ANS:	T	DIF:	Application	REF:	Page 74	TOP:	Ribosomes
58.		er for the Golgi asmic reticulur				ly, both the rib	osomes	and the rough
	ANS:		DIF:	Application	REF:	Page 74	TOP:	Golgi
59.	Muscu	llar dystrophy i somes.	s a dise	ase condition t	hat can	be linked to the	e malfu	nctioning of
	ANS: TOP:	F Proteasomes	DIF:	Memorization	1		REF:	Page 76
50.	The nu	icleus is the on	ly struct	ture in the cell	that cor	ntains DNA.		
	ANS:	F Mitochondria	DIF:	Memorization	1		REF:	Page 77

61. Another name for the centrosome is the microtubule organizing center.

		T Centrosomes	DIF:	Memorization	REF:	Page 81
62.	The ce	ntriole is a sing	gle cylin	ndrical structure at the boundary of th	e centro	osome.
	ANS: TOP:	F Centrosomes	DIF:	Memorization	REF:	Page 81
63.	-	protein structurer along the cyto		ed <i>molecular motors</i> pull loads form on.	one part	of the cell to
	ANS: TOP:	T Molecular Mo	DIF:	Memorization	REF:	Page 81
64.				nicrovilli, cilia, and flagella—have ba number per cell and length.	sically	the same
	ANS:			Memorization	REF:	Page 82 Page
	TOP:	Cell Extension	ns			
65.		y cilia are unat molecules.	ole to m	ove because they lack the central pai	r of mic	rotubules and
	ANS: TOP:	T Cell Extension	DIF:	Memorization	REF:	Page 83
66.	Cytopl	asm is another	term fo	r cytosol.		
	ANS: TOP:	F Cell Structure	DIF:	Memorization	REF:	Page 69
67.		nportant functions the contractions across the contractions are seen across and across across are seen across across and across across are seen across across across across across across across across a seen across across across a seen across across a seen across a seen across a seen across across a seen ac		tegral membrane proteins is signal tra abrane.	ansducti	on or carrying
	ANS: TOP:	T Membrane Fu	DIF:	Memorization	REF:	Page 72
68.				olay an important role in pinching offing cell division.	the cell	membrane so
	ANS: TOP:	F Membrane Fu	DIF:	Memorization	REF:	Page 72
69.	_	elles can be div loving).	ided int	to two groups, hydrophobic (water fe	aring) a	nd hydrophilic

REF: Page 73

DIF: Memorization

ANS: F

	TOP:	Cytoplasm an	d Orgai	nelles				
70.	The only structural difference between the rough and smooth endoplasmic reticulum (ER) is that the rough ER has ribosomes attached.							
	ANS:	F	DIF:	Memorization	REF:	Page 73 Page		
		Endoplasmic	Reticul	um				
71.	The ril	oosome is an ex	xample	of a membranous organelle.				
		F Ribosomes	DIF:	Memorization	REF:	Page 74		
72.		vesicles from ted to outside th	•	gi apparatus reach the cell membrane	, the cor	ntents are		
	ANS: TOP:	T Golgi Appara		Memorization	REF:	Page 74		
73.	The us cell.	sual destination	for ves	sicles released by the Golgi apparatus	is the n	ucleus of the		
	ANS: TOP:	F Golgi Appara		Memorization	REF:	Page 74		
74.	Lysosomes are vesicles that have been pinched off from the smooth endoplasmic reticulum.							
		F Lysosomes	DIF:	Memorization	REF:	Page 76		
75.	Nuclear pore complexes regulate what can enter and leave the nucleus.							
	ANS: TOP:	T Nucleus	DIF:	Memorization	REF:	Page 78		
76.	Centrice each b		ıp of cy	linders of nine bundles of microtubul	les with	two tubules in		
		F Centrosomes	DIF:	Memorization	REF:	Page 81		
77.	Centro	osomes play an	importa	ant role in cell division.				

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Test Bank 3A-10

ANS: T DIF: Memorization REF: Page 81

TOP: Centrosomes

78. Primary cilia can act as sensory organelles.

ANS: T DIF: Memorization REF: Page 83

TOP: Cell Extensions

79. One function of the microvilli is to increase the surface area of a membrane to provide for more efficient absorption.

ANS: T DIF: Memorization REF: Page 82

TOP: Cell Extensions