Practice Questions – Cells, Tissues, and Skin

Note: choices may be used more than once or not at all.

1-5. A) B) C) D) E)	Matching Nucleus Ribosomes Mitochondria Golgi Apparatus Endoplasmic Reticulum		synthesized substances throughout the cell kage synthesized substances for secretion produce ATP from glucose and fatty acids site for protein synthesis in the cytoplasm contains the genetic DNA code	1) . 2) . 3) . 4) . 5) .	E _D _C _B _A
6-10 A) B) C) D)	. Matching Side of plasma membrane facing Side of plasma membrane facing Interior of plasma membrane A and B		hydrophilic hydrophobic contains lipids contains receptors contains phosphate groups	6) _ 7) _ 8) _ 9) _ 10) _	D C C B D
11-1: A) B) C) D) E)	5. Matching Connective tissue cells Epithelial cells Muscle cells Neurons All of the above		have membranes cells secrete a matrix material cells are specialized to shorten cells are tightly connected together cells are specialized to conduct signals	11) . 12) . 13) . 14) . 15) .	EA _C _B _D
16-2 ⁽ A) B) C) D) E)	0. Matching Transitional Epithelium Simple Cuboidal Epithelium Simple Columnar Epithelium Simple Squamous Epithelium Pseudostratified Ciliated Column	ar Epitheliu	line exocrine glands, ducts, renal tubules line body cavities and blood vessels line respiratory airways line ureter and bladder m line digestive tract	16) _. 17) _. 18) _. 19) _. 20) _.	B D E A C
21-2: A) B) C) D) E)	5. Matching Pseudostratified Ciliated Column Stratified Squamous Epithelium Simple Squamous Epithelium Simple Cuboidal Epithelium All of the above	ar Epitheliu	m sweep away debris provide(s) a barrier often found in glands easiest to diffuse through found in skin and esophagus	21) 22) 23) 24) 25)	A E D C B
26-3 A) B) C) D)	O. Matching Dense regular connective tissue Areolar connective tissue Hyaline cartilage Adipose tissue None of the above		accumulates lipids contains chondroitin contains calcium phosphate contains mainly collagen protein fibers contains elastin and collagen protein fibers	26) ₋ 27) ₋ 28) ₋ 29) ₋ 30) ₋	D C E A B_

31-3	35. Matching			
A)	Fibroblasts / Fibrocytes	found in Fibrous Connective Tissue	31) _	A
B)	Adipocytes	found in Hyaline cartilage	32) _	D
C)	Osteocytes / osteoblasts	found in Osseous Tissue	33) _	_C_
D)	Chondrocytes / chondroblast	ts found in Adipose Tissue	34) _	B
	•	found in hypodermis	35) _	B
36-4	10. Matching			
A)	Fibroblasts	found in papillary layer of the dermis	36) _	A
B)	Adipocytes	produce mainly collagen fibers	37) _	A
C)	Osteocytes / osteoblasts	produce calcium phosphate	38) _	_C_
D)	Chondrocytes / chondroblast		39) _	D
		found in the hypodermis	40) _	B
41-4	45. Matching			
A)	Dense irregular connective to	issue often called "fat"	41) _	D
B)	Areolar connective tissue	contains elastic fibers	42) _	B
C)	Hyaline cartilage	found under most epithelium	43) _	B
D)	Adipose tissue	often found under areolar CT	44) _	A
,	•	found at end of joints and in trachea	45) _	C
46-5	50. Matching			
A)	Thin skin	epidermis is thin	46) _	A
B)	Thick skin	epidermis is thick	47) _	B
C)	None of the above	often contains hair follicles	48) _	A
,	Aı	reolar connective tissue layer of dermis is thin and obscure	49) _	A
		Areolar connective tissue layer of dermis is usually visible	50) _	_B
51-5	55. Matching			
A)	Stratum Lucidum	composed of dead cells filled with Keratin	51) _	B
B)	Stratum Corneum	contains cells that are cuboidal in shape	52) _	E
C)	Stratum Spinosum	nuclei and organelles disappear'	53) _	A
D)	Stratum Granulosum	contains cells that are 'growing	54) _	E
E)	Stratum Germinativum	keratohyalin is formed here	55) _	_D
56-6	60. Matching			
A)	Papillary layer of Dermis	origin of hair follicles	56) _	D
B)	Reticular layer of Dermis	contains blood vessels	57) _	E
C)	Hypodermis	composed of adipose tissue	58) _	_C_
D)	Epidermis	composed of areolar connective tissue	59) _	A
E)	A, B and C	composed of stratified squamous epithelium	60) _	_D_
61-6	65. Matching			
A)	Merocrine sweat glands	secrete into hair follicles	61) _	B
B)	Sebaceous glands	anatomically are bulb-like glands	62) _	B
C)	Hair follicles	secrete sweat onto surface of epidermis	63)	A
D)	A and B	are a continuation of the 'epidermis' into the dermis	64) _	C
E)	None of the above	anatomically are simple coiled tubular glands	65) _	A