1) Which of the following represents the exocrine portion of the pancreas?	
Select one:	
a. Islets of Langerhans	
b. Acinus cells	
c. Alpha cells	
d. Beta cells	
e. Delta cells	
2) Failure of the body to distinguish between non-self and self-antigens is calle	d ?
Select one:	
a. Allergic reaction	
b. Autoimmune reaction	
c. Immunodeficiency	
d. Diapedesis	
e. Poisoning	
	Answer: B
3) Blood sinusoids are characterized by ?	
Select one:	
a. Regular lumen	
b. Fenestrated endothelium	
c. Rapid blood flow	
d. Thick basement membrane	Sa # 4 90
e. Presence of smooth muscles	الطبوالجراحة

4) The radial nerve is a major peripheral nerve of the upper limb, it includes	all of the
following EXCEPT?	
Select one:	
a. Motor axons	
b. Perineurium	
c. Schwann cells	
d. Microglia	
e. Sensory axons	
	Answer: D
5) Motor neuron perikaryia are found in ?	
Select one:	
a. Ventral horn of gray matter	
b. Peripheral nerves	
c. Skeletal muscle fiber	
d. Dorsal root ganglia	
e. Dorsal root of gray matter	
	Answer: A
6) One of the following is not a type of blood capillaries?	
Select one:	
a. Sinusoidal capillaries	
b. Lymphatic capillaries	A. 4 . 00
c. Fenestrated capillaries	الطبوالجراحة
d. Continuous capillaries	لجنية
e. Somatic capillaries	-

7) The following blood vessel contains longitudinal bundles of smooth muscle fibers in the
tunica adventitia?
Select one:
a. Inferior vena cava
b. Thoracic duct
c. Basilar artery

Answer: A

8) Each of the following statements concerning B lymphocytes is true EXCEPT?

Select one:

d. Coronary artery

e. Medium sized vein

- a. They can differentiate into plasma cells
- b. They are derived from bone marrow
- c. They can form lymphatic nodule
- d. They are the cause of graft rejection
- e. They are responsible for humeral immune response

Answer: D

9) One of the following is INCORRECT regarding sensory and sympathetic ganglia?

Select one:

- a. Dorsal root ganglia cell bodies have purely trophic function
- b. Sympathetic ganglia have multipolar neurons
- c. Sympathetic ganglia lack capsule in certain locations
- d. Dorsal root ganglia carry afferent neurons
- e. Sensory ganglia usually have unmyelinated nerve fibers



Answer: E

10) A bundle of axons in the peripheral nervous system is called a ?	
Select one:	
a. Nucleus	
b. Ganglion	
c. Nerve	
d. Column	
e. Tract or commissure	
Answer: C	
11) Blood lymphocytes enter the lymph nodes through ?	
Select one:	
a. Medullary arterioles	
b. Cortical venules	
c. Metarterioles	
d. Blood capillaries	
e. Post capillary venules	
Answer: E	
Answer: E	
12) Choose the INCORRECT statements from the followings?	
Select one:	
a. The tunica intima of any arterial wall is regulated by sympathetic innervation and	
by many hormones	
b. Baroreceptors are sensitive to changes in the level of carbon dioxide in the blood	

c. Muscular arteries have prominent internal elastic lamina

d. Precapillary sphincters regulate blood flow to the true capillaries

e. Standing for long times would increase the chances of developing varicose vein

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13) The node of Ranvier ?	
Select one:	
a. Increase the efficiency of nerve conduction	
b. Occurs only in the central nervous system	
c. Occurs only in the peripheral nervous system	
d. Represent the midpoints of myelination segments	
9. Are completely covered by myelin	
	Ar
14) Which of the following is INCORRECTLY matched concerning the axoplasmic trans	sport
system (ATS)?	
Selectione:	

- a. Anterograde ATS syphilis in the dorsal columns
- b. Slow ATS growth and regeneration
- 0. Fast ATS bidirectional
- d. Retrograde ATS fast
- e. Retrograde ATS toxins and viruses

Answer: A

Answer: A

15) What does PALS stand for?

Select one:

- a. Papillary layer sinus
- b. Periarteriolar lymphatic sheath
- c. Peye'r's lymphatic sheath
- d. Parenchymal lymphatic sheath
- e. Peripheral lymphatic sinus



16) Regarding innate immune system, all of the following are true EXCEPT	?
Select one:	
a. Includes antibodies formation.	
b. Is formed of external and internal lines of defense.	
c. Includes antimicrobial proteins and inflammatory response.	
d. Natural killer lymphocytes are one of its components.	
e. Doesn't form memory for second immune response.	
	Answer: A
17) Myelin is absent from all of the following structures EXCEPT?	
Select one: a. Dendrites b. Axon hillock c. Node of Ranvier d. Terminal ends or synapses e. Internodal segment	
	Answer: E
18) The cells that develop immunocompetence in the thymus are	7
Select one: a. B lymphocytes b. Natural killer cells c. T lymphocytes d. Epithelial reticular cells e. Macrophages	Answer: C
19) CD8+ is a marker of?	
Select one: a. B lymphocytes b. Helper T lymphocytes c. Natural killer cells d. Cytotoxic T lymphocytes e. Plasma cells	الطبُ الجراحة م

Answer: D

20) All the following statements are true of cardiac muscle EXCEPT?

Select one:

- a. T—tubules lie at the junction of A and I bands
- b. intercellular junctions include desmosomes
- c. intercellular junctions include gap junctions
- d. intercellular junctions include zonula adherens
- e. muscle fibres have sarcotubules

Answer: A

21) Which of the followings is INCORRECTELY matched?

Select one:

- a. Epithelial reticular cells //// Secrete thymic hormones
- b. Hassall's corpuscles //// Acidophilic structures in the thymic medulla
- c. Billroth cords //// Loose reticular tissue between white pulp and blood sinusoids
- d. Medullary cords //// aggregations of small lymphocytes forming rounded or oval structures
- E] e. Thymic humoral factor //// control the multiplication of both helper and cytotoxic

T -cells

Answer: D

22) Which is TRUE of unmyelinated fibers of the PNS?

Select one:

- a. They are not associated with Schwann cells
- b. They have more node of Ranvier than myelinated fibers
- c. They are enclosed in Schwann cells
- d. They have one axon per one Schwann cell
- e. They are covered by special cells called astrocytes



Answer: C

23) All of the followings are characteristics of type II Pneumocytes EXCEPT?	
Select one:	
a. Carry ACE2 receptdrs on their cell surface	
b. Secrete surfactant	
c. Phagocytose foreign particles in the alveoli	
d. Fewer in number than type I Pneumocytes	
e. Divide to produce both type I and type II Pneumocytes	
Ar	nswer: C
24) Supporting cells of the nervous tissue are nonconducting cells that are in intimate	physical
contact with neurons, which of the following forms the BEST MATCH?	
Select one:	
a. Microglia Ectoderm neuronal tube .	
b. Satellite cells Provide electrical insulation in CNS	
c. Fibrous astrocytes Gray matter	
d. Fibrous astrocytes Macroglia	
e. Oligodendrocytes Neural macrophages	
	Answer: D
25) the structure that absorb lipids in the intestine?	
Select one:	
a. Lymphatic duct	
b. Lacteal	

c. Lymphatic trunk

e. Collecting vessel

d. Vein

الطبُّ الجُراحة جائدة

26) Foam cells are	_

Select one:

- a. Modified smooth muscles in tunica media of arterioles
- b. Endothelial cells damaged by atherosclerotic lesions
- c. Fibroblasts in tunica adventitia of arteries to prevent over distention
- d. Macrophages ingesting lipids in the sub-endothelium of arteries
- e. Mesothelial cells lining of the blood sinusoids

Answer: D

27) Which of the following INCORRECTLY paired?

Select one:

- a. White muscle fibres found in extraocular muscles
- b. Red muscle fibres thin
- c. White muscle fibre contract fast
- d. Red muscle fibres tire slowly
- e. White muscle fibres more mitochondria

Answer: E

28) Which of the followings is INCORRECTLY matched?

Select one:

- 3. Superior concha ///// Pseudostratified columnar with chemoreceptors
- b. Trachea //// C-shaped hyaline cartilage
- c. Inferior concha ///// Pseudostratified columnar ciliated with goblet cells
- d. Bronchus //// Musculosa of spiral layers of smooth muscles
- e. Bronchioles //// Mucosa associated lymphoid follicles



Answer: E

29) Which of the following CNS neuroglial cells is called neural macrophage	es?
Select one:	
a. Astrocytes	
b. Microglia	
c. Ependyma	
d. Oligodendrocytes	
e. Schwann cells	
	Answer: B
30) Fenestrated capillaries are common in the following sites EXCEPT?	
Select one:	
a. Intestine	
b. Brain	
c. Pancreas	
d. Kidney	
e. Endocrine glands	
	Answer: B
31) Concerning the tongue, one is TRUE?	
Select one:	
a. Lingual tonsil is on the anterior 1/3	
b. Covered with fully keratinized stratified squamous epithelium	
c. Lingual papillae are on the posterior 1/3	لُطُبُ الجِراحِة
d. Lingual glands are embedded in the muscles of the ventral surface	جنة
e. The inside of the tongue contains bundles of smooth muscles	•

Answer:

32) Myofibrils are best described as?	
Select one:	
a. Multinucleated cellular units	
b. Bundles of contractile filaments	
c. Motor axons	
d. Fascicle	
e. Long protein molecules	
	Answer: B
33) One of the following is INCORRECT regarding the perikaryo	on of the neurons?
Select one:	
a. They can receive stimuli	
b. Their nuclei move to the periphery after injury	
0. They contain large well-developed Golgi bodies	
d. They are associated with Schwann cells in PNS	
e. They swell after injury	
	Answer: D
34) Regarding the Glomus which statement is CORRECT?	
Select one:	
a. Type of arteriovenous anastomosis	
b. Richly innervated smooth muscle	
c. Sensitive to changes in blood O2 and CO2	طُبُ الجِراحة
d. Found in the tunica media of the carotid sinuses	جنية
e. Macrophages filled with lipid droplets	•

Answer: C

35) Which of the following is CORRECT regarding the lingual tonsil?	
Select one:	
a. Present at the body of the tongue	
b. Covered with keratinized stratified squamous epithelium	
c. Anterior to sulcus terminalis	
d. Lymphatic tissue is formed of lymphatic nodules and diffuse lymphatic tissue	
e. Recurrent inflammation is very common	
	Answer: D
36) Bronchioles differ from bronchi in all of the following aspects EXCEPT?	
Select one:	
a. lack of hyaline cartilage	
b. Presence of smooth muscles	
c. Type of lining epithelium	
d. Absence of submucosal glands	
e. Presence of non- mucous, non- ciliated secretory Clara cells	
	Answer: B
37) Thymus dependent zone of spleen is present?	
Select one:	
a. Around central arteriole of white pulp	
b. Germinal center of white pulp	
c. Marginal zone of white pulp	So. * S
d. Splenic cords	الطُّبُّ الْجُرَاحَةِ
e. Around penciller arteriole of red pulp	لجاله

Answer: A

38) Which of the following is found in the white matter of	central nervous system?
Select one:	
a. Ganglion	
b. Microglia	
c. Protoplasmic astrocyte	
cl. Schwann cell	
e. Nuclei	
	Answer: B
39) The peristalsis movement of the gastrointestinal tract	is carried out by which plexus?
Select one:	
a. Meissner's plexus	
b. Brachial plexus	
c. Auerbach's plexus	
d. Lumbar plexus	
e. Cervical plexus	
	Answer: C
	Allowel. O
40) Which pairing is INCORRECT?	
Select one:	
a. Beta cells / Insulin	
b. F cells / Pancreatic polypeptide	A. 4 . 0
0. Alpha cells / Glucagon	طُبُ الْجَراحة ح
d. Parotid / Saliva	جنة
e. Pancreatic acinar cells / Somatostatin	

41) Choose the INCORRECT statement from the followings?

Select one:

- a. Elastin is the most abundant element in the media of the aorta
- b. Vasa vasorum are blood vessels that supply the wall of the blood vessels
- c. Perlcytes are commonly found in the wall of the capillaries
- d. Up to 65% of the body blood supply found in veins
- e. Metarterioles drain the capillary bed

Answer: E

42) Which of the followings are CORRECTLY matched?

Select one:

- a. Sustentacular cells //// Chemoreceptors of smell of sensation
- b. Type II pneumocytes //// Involved in gas exchange
- c. Clara cells ////I Elimination of inhaled gaseous toxins
- d. Olfactory neurons //// Can divide and act as stem cells
- e. Type I Pneumocytes //// Secrete surfactant to prevent lung collapse

Answer: C

43) One of the following is INCORRECT regarding astrocytes?

Select one:

- a. They are macroglial cells of the CNS E
- b. They are the scar forming cells of the CNS
- c. They have a perivascular foot processes
- d. The protoplasmic astrocytes have a rounded some with thick processes
- e. The fibrous astrocytes are present within the autonomic ganglia



Answer: E

44) The serous secretory cells may characterize by ?	
Select one:	
a. Flattened basal nuclei	
b. Vacuolated apical cytoplasm a	
c. May form demilunes	
d. Lack intercellular canaliculi	
e. Presence of abundant myoepithelial cells	
45) The esophagus is characterized by all of the following EXCEPT?	
Select one:	
a. The submucosa contains mucous secreting glands	
b. The musculosa of the upper third is striated voluntary	
c. The musculosa of the lower third is smooth muscle	
d. The lining epithelium is simple squamous non-keratinized	
e. The adventitia connects the esophagus with surrounding organs	
	Answer: D
46) Choose the INCORRECT statements from the followings?	
Select one:	
a. Intrapulmonary bronchi have cartilage plates in their walls a	
b. Bowman's glands present in the lamina propria of respiratory epithelium	00 * 4 W
c. Clara cells are dome-shaped cells secrete surfactant- like substance	طَبُ الْجِراحِة
d. Alveolar macrophages are developed from blood monocytes	جلاون
e. The epiglottis is an elastic cartilage flap that prevent aspiration of food into the	
lungs	

47) Which of the followings is INCORRECTELY matched?

Select one:

- a. Palatine tonsils //// covered with non-keratinized stratified squamous epithelium
- b. Epithelial reticular cells //// secrete thymic hormones and thymic factor
- c. Paracortex //// thymus dependent zone of spleen
- d. Cortical lymph sinuses //// lined with endothelial cells and macrophage
- e. Pharyngeal tonsils //// covered with pseudostratified columnar ciliated goblet cells epithelium

Answer: C

48) Choose the INCORRECT match from the followings?

Select one:

- a. Bone marrow //// Primary lymphoid organ
- b. Stave cells //// Medullary sinuses of lymph nodes
- c. Memory lymphocytes //// Adaptive immune system
- d. Thymocytes //// Immature T lymphocytes
- e. Mantel zone //// Secondary lymphatic follicle

Answer: B

49) One of the followings is INCORRECTLY matched?

Select one:

- a. Bipolar neurons cochlear nerves C
- b. Unipolar neurons afferent neurons 4
- c. Multipolar neurons vestibular nerve
- d. Bipolar neurons one axon
- e. Intermediate neurons present in the CNS



Answer: C

Answer: D
Answer: B
الطبُّالِجُراجُة
لجنية

e. Mucus secreting glands in its lamina propria

Answer: D

53) Regarding the lymphatic capillaries all of the following are correct EXCEPT?

Sel	مما	+	\sim	nΔ	•

- a. Begin with blind end
- b. Are larger and more permeable than blood capillaries
- c. The basement membrane splits to enclose pericytes
- d. Have interrupted basal lamina
- e. Have gaps between endothelial cells

Answer: C

54) One of the following is CORRECTLY paired?

Select one:

- a. Dendrites----tapered
- b. Axon hillock---- Nissl body
- c. Dendrons -----do not contain neurofibrils
- d. Axon----- length is constant
- e. Dendrons----conduct impulses outwards the cell body

Answer: A

55) Ultrastructurally. the type of junction within intercalated disc, which rivets to prevent the cells from pulling apart?

Select one:

- a. Zonula adherents
- b. Desmosomes
- c. Gap junctions
- d. Nexus
- e. fasclae adherents



56) Choose the CORRECT match?

Select one:

- a. Arteriovenous shunt //// direct connection between arteries and veins
- b. Somatic capillaries //// have the highest permeability
- C. Elastic arteries //// obscure internal elastic lamina
- d. Sinusoidal capillaries //// continuous basement membrane
- D e. Umbilical artery //// clear external elastic lamina

Answer: A

57) One of the following is CORRECT about sarcoplasmic reticulum of skeletal muscle?

Select one:

- a. It forms triads at the level of Z line
- b. It forms diads at the level of junction between A and I bands
- c. The T tubules usually absent
- d. It has sarcotubules
- e. The T tubules situated at the level of 2 line

Answer: E

58) One of the followings is INCORRECTLY matched?

Select one:

- a. Type A peripheral neuron very thin
- b. Type A peripheral neuron skeletal muscles
- c. Type C peripheral neuron autonomic fibres
- d. Type B peripheral neuron myelinated
- e. Type B peripheral neuron preganglionic autonomic fibres



Answer: A

59) One of the following is INCORRECT about the sarcomere?
Select one:
a. l-band - actin filaments
b. A-band - myosin filaments with actin filaments
c. H-band - zone of myosin and actin filaments
d. M-line - connections between myosin filaments
e. Z-line - zoneof apposition of actin filaments belonging to two neighbouring
sarcomeres
Answer: C
Answer: C 60) The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong?
60) The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong?
60) The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong? Select one:
60) The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong? Select one: a. Astrocytes
60) The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong? Select one: a. Astrocytes b. Primary sensory neurons

