

Regarding the spleen which of the following is INCORRECTLY matched?

Select one:

- a. White pulp ——— Lymphoid nodules
- b. Red pulp ——— Blood sinusoids
- c. Thymus dependent zone ——— Billroth cords
- d. Germinal center ——— Activated B lymphocytes
- e. Central arteriole ——— Periaarterial lymphoid sheath

Answer: c

Astrocytes are the largest of all glial cells, which of the following forms INCORRECT match

Select one:

- a. Protoplasmic astrocytes ——— gray matter
- b. Protoplasmic astrocytes ——— thick cellular processes
- c. Fibrous astrocytes ——— white matter
- d. Fibrous astrocytes ——— rounded cell bodies

Answer:d

Pericytes of capillaries perform the following function _____ ?

Select one:

- a. Provide smooth surface for blood flow through capillaries
- b. Regulation of blood flow through capillaries
- c. Can differentiate into elastic fibers
- d. Provide nutrition to capillaries wall
- e. Inhibit clot formation within capillaries

Answer: b

Which pairing is INCORRECT?

Select one:

- a. Beta cells / Insulin
- b. Alpha cells / Glucagon
- c. Parotid / Saliva
- d. Pancreatic acinar cells / Somatostatin
- e. F cells / Pancreatic polypeptide

Answer:

Which description is TRUE of the muscularis mucosa of the upper esophagus?

Astrocytes are the largest of all glial cells, which of the following forms INCORRECT match?

Select one:

- a. Protoplasmic astrocytes-----gray matter
- b. Protoplasmic astrocytes-----thick cellular processes
- c. Fibrous astrocytes-----white matter
- d. Fibrous astrocytes-----rounded cell bodies
- e. Protoplasmic astrocytes-----perivascular foot processes

Answer:d

One of the following is TRUE about myofilaments and sarcomere

Select one:

- a. Troponin lies in the groove of the spiral within the actin filaments
- b. The myosin molecule has a head and a tail
- c. The average length of a sarcomere is about 2.5 μm during contraction
- d. A - band becomes narrower during contraction
- e. I - band stays the same during contraction

Answer: b

Key-Retzius sheath refers to-----?

Select one:

- a. Internodal segments
- b. Myelin sheath
- c. Schmidt-Lantermann clefts
- d. Endoneurium
- e. Perikaryon

Answer: d

Which of the following is INCORRECTLY matched?

Select one: 

- a. Dorsal root ganglia-----no synaptic connections
- b. Dorsal root ganglia-----afferent sensory impulses
- c. Autonomic ganglia-----multipolar neurons
- d. Autonomic ganglia-----fewer satellite cells
- e. Dorsal root ganglia-----unmyelinated nerve fibers

Answer:e

on 28

ed

out of

Peripheral axons which are enveloped by Schwann cell cytoplasm but are not wrapped by several layers of m
-?

Select one:

- a. Motor nerve fiber
- b. Myelinated nerve fiber
- c. Unmyelinated nerve fiber
- d. Sensory nerve fibre
- e. Postganglionic nerve fiber

Answer:

Characteristic of the olfactory epithelium include which of the following?

Select one:

- a. Located on the inferior conchae of the nasal cavity
- b. Classified as simple columnar
- c. Has an underlying lamina propria containing mucous glands
- d. Is unable to regenerate
- e. Has Bipolar neurons with modified cilia

Answer: e

One of the following is TRUE about myofilaments and sarcomere

Which description is TRUE of all secondary (peripheral) lymphoid organs?

Select one:

- a. Capable of antigen- independent lymphopoiesis

Small cells closely associated with neurons in peripheral ganglia may be called?

Select one:

- a. Postganglionic cells
- b. Pyramidal cells
- c. Preganglionic cells
- d. Autonomic cells
- e. Satellite cells

Answer: e

The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong?

Select one:

- a. Primary sensory neurons
- b. Lower motor neurons
- c. Secondary motor neurons
- d. Astrocytes
- e. Oligodendrocytes

Which of the following is INCORRECTLY matched?

Select one:

- a. Sublingual glands ----- Abundant myoepithelial cells
- b. Parotid glands ----- Serous demilune
- c. Submandibular glands ----- Mixed salivary glands
- d. Von Ebner glands ----- Circumvallate papillae
- e. Lingual glands ----- Intrinsic salivary glands

C- Shaped cartilage is characteristic feature of the wall of which structure?

Select one:

- a. Alveolar duct
- b. Bronchus
- c. Bronchiole
- d. Trachea
- e. Terminal bronchiole

Answer: d

One of the following is CORRECTLY matched?

Select one:

- a. Cardiac muscle.....satellite cells
- b. Cardiac muscle.....only one nucleus
- c. Skeletal muscle.....branched fibers
- d. Smooth muscle.....caveolae
- e. Smooth muscle.....no filaments

Answer: d



One statement is CORRECT regarding the structure of the inferior vena cava?

Select one:

- a. Lined by simple columnar epithelium.
- b. Several layers of elastic fibres are present in the media
- c. Vasa vasora cannot be observed in the adventitia
- d. Circular smooth muscle bundles are present in the intima
- e. Longitudinal smooth muscle bundles are seen in the adventitia

Answer: e

Which structural feature distinguishes between terminal and respiratory bronchiole?

Select one:

- a. Cilia
- b. Cuboidal epithelial lining
- c. Mucous glands in the lamina propria
- d. Alveoli
- e. Smooth muscle

Answer: b

One of the followings is INCORRECTLY matched?

Select one:

- a. Bipolar neurons— cochlear nerves
- b. Unipolar neurons— afferent neurons
- c. Bipolar neurons— present in the CNS
- d. Bipolar neurons— one axon
- e. Intermediate neurons— present in the CNS

Answer:c

Comparing blood capillaries and sinusoids, choose the INCORRECT statement?

Select one:

- a. Capillaries are present all-over the body
- b. Sinusoids have wide irregular lumens
- c. Sinusoids are lined by continuous endothelial cells
- d. Capillaries are surrounded by pericytes
- e. Sinusoids allow big molecules and cells to pass easily through their walls

Answer: C

Foam cells are _____?

Select one:

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



Answer: c

Which of the following is INCORRECTLY matched concerning the axoplasmic transport system (ATS)?

Select one:

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

Answer: a

In general, neurons have_____?

Select one:

- a. A small nucleus
- b. A paucity of rough endoplasmic reticulum
- c. A poorly organized microtubules network
- d. Few lysosomal elements
- e. A highly ordered cytoskeleton to provide internal support

Answer:

After their maturation in the thymus and release into the circulation, T lymphocytes migrate to which of the following sites?

Select one:

- a. Paracortex of lymph nodes
- b. Hilum of lymph nodes
- c. Medullary cords of the tonsils
- d. Splenic sinuses
- e. MALT of the intestinal tract

Answer: A

The type of epithelium associated with the vermilion zone of the lip is ____?

Select one:

- a. Stratified squamous non-keratinized
- b. Pseudostratified ciliated columnar
- c. Stratified squamous keratinized
- d. Stratified cuboidal
- e. Stratified columnar

Answer: c

Which of the following is **MISMATCHED**?

Select one:

- a. Trachea – Hyaline cartilage C-shaped incomplete rings
- b. Trachea – Respiratory epithelium.
- c. Bronchi – Hyaline cartilage as irregular plates
- d. Bronchi -- Simple columnar epithelium with Clara cells.
- e. Bronchioles -- Lacks hyaline cartilage

Answer: d

Which of the following statements concerning terminal bronchioles is TRUE?

Select one:

- a. They are part of the conducting portion of the respiratory system
- b. They function in gas exchange
- c. They do not contain ciliated cells in their lining epithelium
- d. They have cartilage plates present in their wall
- e. They do not contain Clara cells

Answer: a

The epithelial lining of a bronchus is which of the following types?

Select one:

- a. Simple columnar
- b. Ciliated pseudostratified
- c. Stratified squamous
- d. Transitional
- e. Simple squamous

Answer: b

Concerning lymphatic capillaries one of these statements is TRUE?

Select one:

- a. Lymphatic capillaries have narrower diameter than blood capillaries
- b. Lymphatic capillaries are lined by simple cubical epithelium resting on a clear basement membrane
- c. Lymphatic capillaries are blind ended
- d. Lymphatic capillaries are surrounded by pericytes
- e. Lymphatic capillaries are surrounded by Littoral cells

Answer: c

Which of the following is found in the white matter of central nervous system?

Select one:

- a. Ganglion
- b. Nerve
- c. Tract
- d. Schwann cell
- e. Nuclei

Answer:c

Following injury of an axon, the perikaryon undergoes which off the following changes?

Select one:

- a. The soma shrinks
- b. Nissl bodies are increased
- c. The nucleus moves to the periphery
- d. The nucleus becomes smaller
- e. Nissl bodies appears in axons

Answer: c

The axon hillock contains?

Select one:

- a. Rough endoplasmic reticulum
- b. Ribosomes
- c. Microtubules
- d. Golgi complex
- e. Synaptic vesicles

Answer:c

All of the following are components of sensory ganglia EXCEPT?

Select one:

- a. Axons
- b. Synapses
- c. Perikarya
- d. Loose connective tissue
- e. Satellite or Schwann cells

Answer: b

BALT is commonly found in the wall of which part of the respiratory system?

Select one:

- a. Trachea
- b. Intrapulmonary bronchus
- c. Bronchioles
- d. Terminal bronchioles
- e. Respiratory bronchioles

Answer: b

Triads in skeletal muscle consist of which of the following?

Select one:

- a. Sarcoplasm, sarcoplasmic reticulum, calcium ions
- b. Sarcoplasmic reticulum, terminal cisterna, sarcoplasm
- c. Two terminal cisternae and a T-tubule.
- d. Two T-tubules and one terminal cisterna
- e. T-tubule a terminal cisterna and sarcotubules

Answer:c

Which of the following is INCORRECT regarding myelinated and unmyelinated fibres?

Select one:

- a. Myelinated axons do not usually enter gray matter
- b. Unmyelinated axons generally have a smaller diameter than myelinated axons
- c. Unmyelinated axons conduct more slowly than myelinated axons
- d. Action potentials travel along myelinated axons and unmyelinated axons
- e. Non-myelinated nerves are found in both the CNS and PNS

... the white matter of central nervous system?

Answer:d

Regarding adaptation of blood vessels to perform their functions, one is NOT CORRECT?

Select one:

- a. The endothelium provides smooth surface for blood flow
- b. Smooth muscle cells regulate the blood flow by contraction and relaxation
- c. The adventitia connects the vessel to the surrounding tissues
- d. Elastic lamina allow expansion during systole
- e. Vasa vasora are small vessels that supply the intima of large vessels

Answer: e

Triads in skeletal muscle consist of which of the following?

Regarding the Tonsils all are true EXCEPT?

Select one:

- a. Possess epithelial invaginations in the form of crypts
- b. Crypts frequently containing debris
- c. Produce lymphocytes that assist in fighting antigens entering via the oral and nasal routes
- d. They have primary and secondary lymphatic nodules
- e. Are situated along the course of lymphatic vessels

Answer: e

Which two of the following are typically necessary to stimulate B- lymphocyte to divide and differentiate?

Select one:

- a. Plasma cell / antibody
- b. Helper T lymphocyte / antigen
- c. Cytokine / immunoglobulin
- d. Memory T lymphocyte / cytokine
- e. Cytotoxic T lymphocyte / antigen

Answer: b

The largest cell bodies in the dorsal (posterior) horn of the spinal cord belong to?



Which of the following is INCORRECTLY matched?

Select one:

- a. Dorsal root ganglia-----no synaptic connections
- b. Dorsal root ganglia-----afferent sensory impulses
- c. Autonomic ganglia-----multipolar neurons
- d. Autonomic ganglia-----fewer satellite cells
- e. Dorsal root ganglia-----unmyelinated nerve fibers

Answer:e

A typical peripheral mixed nerve includes all of the following EXCEPT?

Select one:

- a. Motor axon
- b. Astrocytes
- c. Perineurium and/or endoneurium
- d. Schwann cells

Answer: b



Choose the CORRECT statement regarding Metarterioles?

Select one:

- a. Function to control blood flow into arterioles
- b. Receive blood from thoroughfare channels
- c. Possess precapillary sphincters
- d. Possess valves to regulate the direction of blood flow
- e. Possess a complete layer of smooth muscle cells in their tunica media

Answer: c

Choose the CORRECT statement regarding Metarterioles?

Select one:

- a. Function to control blood flow into arterioles
- b. Receive blood from thoroughfare channels
- c. Possess precapillary sphincters
- d. Possess valves to regulate the direction of blood flow
- e. Possess a complete layer of smooth muscle cells in their tunica media