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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(MLT)-2019/B.Sc.(MLT)-2020/B.Sc.(MLT)-2021

Course Name – Fundamentals of Histology

Course Code - BMLT303

(Semester III)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :
 - (i) Choose Chromophils are associated with
 - a) Pituitary
 - b) Adrenal
 - c) Pineal
 - d) Parathyroid
 - (ii) Select Anterior portion of pituitary contain
 - a) Chromophil
 - b) Herring bodies
 - c) Pinealocytes
 - d) None of these
 - (iii) Select the option which is a muscle present in stomach but absent in other parts from Oesophagus to Rectum
 - a) Circular
 - b) Oblique
 - c) Longitudinal
 - d) None of these
 - (iv) Payers patch is located in which GI layer
 - a) Duodenum
 - b) jejunum
 - c) Ileum
 - d) Large intestine
 - (v) Identify the layer that is made up of smooth muscles
 - a) Mucosa
 - b) Muscularis externa
 - c) Submucosa
 - d) Serosa
 - (vi) Identify the part of the GI tract provides motor innervation to both layers of the muscular layer of the gut
 - a) Meissner's plexus
 - b) Myenteric plexus (or Auerbach's plexus)
 - c) Submucous plexus
 - d) None of these
 - (vii) Write the location of Production of bile
 - a) mucus cell layer of Liver
 - b) Hepatocytes
 - c) Kupffer cells of Liver
 - d) Sinusoids
 - (viii) Select the papillae that lack test buds
 - a) Circumvallate papillae
 - b) Filiform papillae

- c) Foliate papillae
 (ix) Write the thickest layer of artery
 a) Tunica intima
 c) Tunica adventitia
 (x) Illustrate Dura mater consists of
 a) dense fibrous connective tissues
 c) loose connective tissues with CSF
 (xi) Define the arachnoid layer of the meninges consists of
 a) a thin layer of cells and collagen adhering to the outer surface of the brain
 c) white matter
 (xii) Select the structure responsible for the blood-brain barrier?
 a) Endothelium basement membrane
 c) Fenestrated capillary endothelium
 (xiii) Define Cerebrospinal fluid is actively secreted by ependymal cells of the:
 a) Choroid plexus
 c) Arachnoid villi
 (xiv) Discuss type of neurons is mostly found in nervous system
 a) Unipolar
 c) Pseudounipolar
 (xv) Describe The cell body of neuron is called-
 a) Ganglion
 c) Astrocyte
- d) Fungiform papillae
 b) Vasa vasorum
 d) Tunica media
 b) white matter
 d) grey matter
 b) Continuous capillary endothelium
 d) loose connective tissue with CSF as a ground substance
 b) Continuous capillary endothelium
 d) Astrocyte foot process
 b) Stria vascularis
 d) Pia matter
 b) Bipolar
 d) Multipolar
 b) Perikaryon
 d) Dendrite

Group-B
 (Short Answer Type Questions)

3 x 5=15

2. Define the histological features of arteries and veins (3)
 3. Write a short note on the grey matter of the cortex (3)
 4. Write down any two types of the basic structure of the spinal cord with a diagram (3)
 5. Explain the pineal gland (3)
 6. Write a short note ovarian cycle (3)

OR

Classify the three stages of the histological section of the uterine layer (3)

Group-C
 (Long Answer Type Questions)

5 x 6=30

7. Mention the different histological layers of the esophagus and select the gland (5)
 8. Draw a labeled histological diagram and select the TS of the liver (5)
 9. Mention the types of arteries and label the zone (5)
 10. Illustrate the layer of the histological section of the cerebellum (5)
 11. Discuss the Normal histology of the Retina (5)
 12. Discuss the Histological structure of the cornea (5)

OR

Explain the histological structure of the Thyroid gland (5)
