

12. Which of the following is not a branch of internal carotid artery — ?
A. Posterior communicating B. Anterior choroidal
C. Posterior choroidal D. Anterior cerebral
13. Supramarginal gyrus is located in —
A. Inferior frontal gyrus B. Superior frontal gyrus
C. Inferior temporal gyrus D. Inferior parietal lobule
14. Olfactory receptor cells are —
A. Unipolar neurons B. Bipolar neurons
C. Pseudounipolar neuron D. Multipolar neuron
15. Which of the following is not the feature of hyaline cartilage — ?
A. Chondrocytes in lacunae
B. Chondrocytes arranged in clusters (isogenous groups)
C. Lightly stained territorial matrix
D. Found in costal cartilage
16. Tunica adventitia is thickest in which of the following blood vessel —
A. Large sized artery B. Large sized vein
C. Medium sized artery D. Arteriole
17. During spermatogenesis, Second meiotic division gives rise to —
A. Primary spermatocytes B. Secondary spermatocytes
C. Spermatids D. Spermatozoa
18. 1st pharyngeal cleft forms —
A. Internal auditory meatus B. External auditory meatus
C. Tympanic cavity D. Epitympanic recess
19. Muscle with parallel fibres are all except —
A. Sartorius B. Rectus abdominis
C. Sternohyoid D. Tibialis anterior
20. Which one of the following is the example of capacitance vessel — ?
A. Elastic artery B. Large vein
C. Muscular artery D. Arteriole

Section - B

Q. 2. Case base question. (2 out of 3) 16 Marks

- A. A 40 years old female suddenly developed inability to move her left upper limb and left lower limb and also complain of double vision. On examination lateral squint was observed in right eye. It was diagnosed as a vascular lesion in the brain stem. **(2 + 3 + 3)**
1. Specify the anatomical structures involved.
 2. Draw a labeled diagram at the level of lesion and name the syndrome.
 3. Give the anatomical basis of the sign and symptoms.
- B. A carpenter injured his right index finger by sharp iron nail. After about 3 days, he developed fever and his right index finger was swollen and painful. **(1 + 2 + 2 + 3)**
1. Name the structure in the index finger that is likely to be inflamed.
 2. What is this clinical condition called? If the condition is neglected or not treated then what happened.
 3. The infections of which fingers are more dangerous and why.
 4. Write a note on extensor digital expansion.
- C. A 26 year old woman survived he knife attack, but was injured in the neck. She was rushed to the hospital as having profuse bleeding. On examination, it was found there was no deep cut in the neck. She was breathless, cyanotic and had low blood pressure. On auscultation, churning and splashing sounds masked the normal heart sounds. The physician suspected venous air embolism. **(1 + 2 + 5)**
1. Name the vein that is injured & exposed to atmospheric air.
 2. Give the anatomical reason why vein was not able to contract after injury.
 3. Describe the formation, termination and tributaries of the injured vein.

Q. 3. A. Write short note on any 2 out of three. 10 Marks

- a. Rotator cuff and its applied aspect.
- b. Posterior interosseous nerve – its origin, course, muscle supplied and applied aspect.
- c. Define anastomosis. Write a note on anastomosis around elbow joint.

B. Write short note on.

10 Marks

- a. First arch syndrome.

OR

Intra-embryonic mesoderm.

- b. Development of Adrenal gland with its clinical correlation.

OR

Development of Face and its anomalies.

C. Write short note on any one out of two.

4 marks

1. Describe the components of lymphatic system.
2. Classification of muscle according to their arrangement of muscle fibres.

Section - C

Q. 4. Write a note on any 2 out of 3.

16 marks

- i. Describe mandibular nerve in details. Add a note on connections of otic ganglion.
- ii. Constrictor muscles of pharynx - origin, insertion, nerve supply, structures passing between the constrictors with applied aspect Write a note on sinus morgagni.
- iii. Scalp under following heading - Nerve supply, Blood supply and venous drainage. Write a note on safety valve haematoma.

Q. 5. A. Write a short note. (2 out of 3)

10 Marks

1. Explain visual reflexes.
2. Describe cavernous sinus under following headings —
 - (a) Location and formation
 - (b) Relations
 - (c) Contents
 - (d) Communications
 - (e) Applied aspect
3. Draw a well labeled diagram showing Sulci, gyri and functional areas on the superolateral surface of the cerebral hemisphere.

B. Write short Note.

10 Marks

- 1) Histology of Transitional epithelium or Histology of Dorsal root ganglion.
- 2) Histology of Pituitary gland or Histology of Cerebellum.

C. Short note. (any one)

4 Marks

1. Describe different types of glial cells with their functions.
 2. Growth of a long bone.
 3. Implantation.
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