

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I (CBME) Degree Examination - 02-Dec-2024

Time: Three Hours

Max. Marks: 100

ANATOMY – PAPER - I (RS-4)

Q.P. CODE: 1020

(QP Contains two pages)

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Describe the parts, fissures, relations and blood supply of Right Lung
2. A 34-year-old man is admitted to the hospital with severe headaches, dizziness and vomiting. On examination, there was a tumor in his tongue.
 - a) Describe the attachments and actions of the muscles and nerve supply of tongue
 - b) Add a note on its lymphatic drainage

SHORT ESSAYS

8 x 5 = 40 Marks

3. Describe the origin, course, relations, branches and termination of brachial artery
4. A 30-year-old patient, who slept with the arm hanging by the side of a chair, came with history of inability to extend the hand at the wrist joint. On examination, there was wrist drop.
 - a) Name the nerve compressed in this condition.
 - b) Mention the site of compression of nerve?
 - c) Enumerate the branches of the nerve given here.
5. Describe boundaries and contents of Posterior mediastinum
6. Describe the formation, relations, tributaries and termination of Internal jugular vein
7. Draw a neat labelled diagram of spinal cord at mid thoracic level showing the ascending and descending tracts.
8. Explain the formation of Primitive streak and its fate
9. Compare and contrast microscopic features of serous and mucous salivary glands
10. Describe the anatomical division and blood supply of Cerebellum. Enumerate the deep cerebellar nuclei

SHORT ANSWERS

10 x 3 = 30 Marks

11. Draw a neat labelled diagram of brachial plexus and its branches
12. List the axillary group of lymph nodes and their location
13. Define Bronchopulmonary segment? List the bronchopulmonary segments of left lung
14. Name the muscles of soft palate and mention their nerve supply
15. Draw a neat labelled diagram showing the features in the interior of larynx
16. Name the muscles, spaces and glands enclosed by general investing layer of deep cervical fascia
17. Explain the formation of circle of Willis
18. List the types of Epiphyses with examples
19. Explain the terms- Proximal, Coronal plane, Medial position
20. Mention derivatives of intermediate mesoderm

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Multiple Choice Questions

10 x 1 = 10 Marks

- 21 i) Which of the following arteries is most likely at risk during venepuncture at the cubital fossa?
A. Brachial artery
B. Ulnar artery
C. Radial artery
D. Common interosseous artery
- 21 ii) Restoration of diploidy of chromosomes occurs after _____
A. Capacitation
B. Acrosomal reaction
C. Fertilization
D. Cleavage
- 21 iii) Basophilia of extracellular matrix of hyaline cartilage is due to _____
A. Glycosaminoglycans
B. Collagen fibres
C. Chondrocytes
D. Water
- 21 iv) Which of the following sutures is an example for serrate type _____
A. Lambdoid
B. Coronal
C. Metopic
D. Sagittal
- 21 v) The sternal angle of Louis gives attachments to which pair of costal cartilages _____
A. 1st
B. 2nd
C. 3rd
D. 4th
- 22 i) Which of the following muscle is pierced by Parotid duct _____
A. Temporalis
B. Masseter
C. Medial pterygoid
D. Buccinator
- 22 ii) Broca's motor speech area is located in _____
A. Postcentral gyrus
B. Superior frontal gyrus
C. Middle frontal gyrus
D. Inferior frontal gyrus
- 22 iii) Which of the following modification of columnar epithelium helps to increase surface area and absorption _____
A. Cilia
B. Microvilli
C. Flagella
D. Kinocilia
- 22 iv) Which of the following cranial nerve passes through internal acoustic meatus _____
A. Glossopharyngeal
B. Vagus
C. Abducent
D. Facial
- 22 v) Which of the following chambers contribute to the base of the heart _____
A. 2/3rd of Right atrium and 1/3rd of left atrium
B. 2/3rd of Left atrium and 1/3rd of right atrium
C. 2/3rd of Right ventricle and 1/3rd of left ventricle
D. 2/3rd of left ventricle and 1/3rd of Right ventricle
