



Rajiv Gandhi University of Health Sciences, Karnataka
MBBS Phase - I (CBME) Degree Examination - 03-Feb-2023

Time: Three Hours

Max. Marks: 100 Marks

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

- Describe the lateral wall of nose under the following headings
a) Features b) Blood supply c) Nerve supply d) Applied anatomy
- A two year old child was brought to the emergency department with history of swallowing of plastic bead.
a) Which is the likely bronchopulmonary segment lodging this foreign body
b) Define a bronchopulmonary segment
c) Mention the Bronchopulmonary segments of both lungs
d) Explain the features and relations of medial surface of left lung.

SHORT ESSAYS

8 x 5 = 40 Marks

- Describe the microscopic structure of transverse section of bone with a neat labelled diagram
- Define twinning. Mention its types and their embryological basis
- Draw a neat labelled diagram of transverse section of Pons at the level of facial colliculus
- Describe the attachments, nerve supply and action of serratus anterior. Define winging of scapula
- Describe the origin, course, branches and clinical significance of brachial artery
- A 30 year old male with numbness and weakness in the thenar aspect of palm attended OPD. On examination paper holding test was positive
a) Name the nerve involved and its root value.
b) Draw a labelled diagram showing the area of distribution of sensory loss.
c) List the muscles affected.
- Trace the vertical disposition and modifications of general investing layer of deep cervical fascia
- Write the anatomical classification of cerebellum with its functions. Name the Deep nuclei of cerebellum.

SHORT ANSWERS

10 x 3 = 30 Marks

- Classify *cartilaginous joints* ~~synchondrosis~~ with examples.
- Differentiate pneumatic and sesamoid bone with examples
- Draw a neat labelled diagram of Graffian follicle
- List the structures related to the neck of 1st rib
- Mention the branches of right coronary artery
- Name the dangerous layer of scalp and its clinical importance
- List the muscles of soft palate
- Mention the general, special sensory and motor nerve supply of anterior 2/3rd of tongue
- List the structures piercing the clavipectoral fascia.
- Mention the parts of Basal ganglia.

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10 x 1 = 10 Marks

Multiple Choice Questions

- 21 i) Choroid plexus of fourth ventricle is derived from
- A. Basilar artery
 - B. Posterior inferior cerebellar artery
 - C. Superior cerebellar artery
 - ☒ D. Posterior cerebral artery
- 21 ii) Which of the following muscles is supplied by glossopharyngeal nerve
- A. Stylopharyngeus
 - ☒ B. Styloglossus
 - C. Stylohyoid
 - D. Sternohyoid
- 21 iii) Atypical ribs are
- A. 1, 9, 10, 11, 12
 - B. 1, 2, 3, 11, 12
 - ☒ C. 1, 2, 10, 11, 12
 - D. 8, 9, 10, 11, 12
- 21 iv) How many bronchial arteries supply the right lung?
- ☒ A. 1
 - B. 2
 - C. 3
 - D. 4
- 21 v) Perichondrium is absent in which of the following cartilage
- A. Elastic
 - B. Hyaline
 - ☒ C. Fibrous
 - D. All of the above
- 22 i) Mandibular nerve supplies all of following **EXCEPT**
- A. Mylohyoid
 - B. Medial Pterygoid
 - C. Lateral Pterygoid
 - ☒ D. Stylohyoid
- 22 ii) Motor fibres to the muscles of pharynx and larynx arise from
- A. Dorsal nucleus of vagus
 - B. Nucleus of tractus solitarius
 - C. Nucleus ambiguus
 - ☒ D. Mesencephalic nucleus of trigeminal nerve
- 22 iii) Axillary sheath is derived from
- A. Pretracheal fascia
 - B. Pharyngobasilar fascia
 - C. Prevertebral fascia
 - ☒ D. Investing layer of deep cervical fascia
- 22 iv) All are the end results of fertilization **EXCEPT**
- A. Restoration of diploid number of chromosomes
 - B. Determination of sex of embryo
 - C. Completion of 2nd meiotic division of female gamete
 - ☒ D. Completion of 2nd meiotic division of male gamete
- 22 v) End artery is present in which of the following organs
- A. Intestine
 - B. Stomach
 - ☒ C. Spleen
 - D. Testis