



## Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

### Bachelor's Degree Examination – May 2025 II Semester

Class : I UG / 2023 Batch  
Major : Physician Assistant

Time: 3 Hours  
Max. Marks: 100

#### 22BPAC06 Anatomy - II

#### Course Outcomes:

On the successful completion of the course, students will be able to

CO1: Understand the basics of anatomy of special organs in human body.

CO2: Know the importance of structure and organisation of upper limb and lower limb and arthrology and arthrokinematics.

CO3: Provide students insight into normal structural anatomy of thorax and organs in it.

CO4: Aware of structural and functional knowledge of head and neck structures.

CO5: Understand the anatomical organisation of central nervous system, brain, spinal Cord, nerves and peripheral nervous system.

#### Part A

10 x 1 = 10

#### Choose the Correct Answer

- The lacrimal gland is located in the: CO1 K1
  - Medial wall of orbit
  - Lateral wall of orbit
  - Superior lateral part of orbit
  - Posterior wall of orbit
- The following is NOT a part of the external ear CO1 K1
  - Pinna
  - External acoustic meatus
  - Tympanic membrane
  - Ossicles
- The axillary fossa is bounded anteriorly by: CO2 K1
  - Pectoralis major and minor
  - Latissimus dorsi
  - Serratus anterior
  - Subscapularis
- The muscle forms the lateral border of the cubital fossa CO2 K1
  - Pronator teres
  - Brachioradialis
  - Flexor carpi radialis
  - Palmaris longus
- The typical thoracic vertebra has: CO3 K1
  - Bifid spinous process
  - Long spinous process pointing downward
  - Short spinous process
  - Horizontal spinous process
- The diaphragm is supplied by: CO3 K1
  - Phrenic nerve (C3,4,5)
  - Intercostal nerves
  - Vagus nerve
  - Sympathetic chain
- The parotid gland is located: CO4 K1
  - Below the mandible
  - In the submandibular triangle
  - Below and in front of the ear
  - In the sublingual space
- The hard palate is formed by: CO4 K1
  - Maxilla and palatine bones
  - Palatine bones only
  - Maxilla only
  - Sphenoid and palatine bones
- The circle of Willis is formed by: CO5 K1
  - Internal carotid and vertebral arteries
  - External carotid and vertebral arteries
  - Internal carotid and basilar arteries
  - External carotid and basilar arteries
- The parasympathetic functions of cranial nerve is CO5 K1
  - Trigeminal nerve
  - Facial nerve
  - Glossopharyngeal nerve
  - All of the above

**Part B**  
**Answer ALL questions**  
**Each answer should not exceed 400 words or two pages**

**5 x 6 = 30**

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|---|--------|
| 11.a. Describe the structure and functions of the lacrimal gland.<br>(or)       | CO1 K2 |
| 11.b. List and describe the layers of conjunctiva.                              | CO1 K2 |
| 12.a. Describe the boundaries and contents of the carpal tunnel.<br>(or)        | CO2 K2 |
| 12.b. Name and describe the muscles in the anterior compartment of the forearm. | CO2 K2 |
| 13.a. Describe the typical features of a thoracic vertebra.<br>(or)             | CO3 K3 |
| 13.b. List and describe the layers of the pleura.                               | CO3 K2 |
| 14.a. Describe the boundaries and contents of the temporal fossa.<br>(or)       | CO4 K2 |
| 14.b. List and describe the parts of the pharynx.                               | CO4 K2 |
| 15.a. Describe the structure of meninges.<br>(or)                               | CO5 K2 |
| 15.b. Name and describe the parts of the brainstem.                             | CO5 K2 |

**Part C**  
**Answer ALL questions**  
**Each answer should not exceed 800 words or four pages**

**5 x 12 = 60**

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|--|--------|
| 16.a. Draw and explain the gross anatomy of the eyeball with its rotations and extra ocular muscles.<br>(or)     | CO1 K4 |
| 16.b. State and describe the anatomical divisions and components of the external, middle, and inner ear.         | CO1 K3 |
| 17.a. Describe in detail the muscles, ligaments and joints of the hand with their clinical significance.<br>(or) | CO2 K3 |
| 17.b. Define and describe the anatomical features of tarsal tunnel with its contents.                            | CO2 K3 |
| 18.a. Describe the walls of thorax and joints of thorax with clinical correlations.<br>(or)                      | CO3 K3 |
| 18.b. State and describe the features of typical and atypical vertebrae.   | CO3 K3 |
| 19.a. Describe in detail the facial nerve - its course, branches and clinical significance.<br>(or)              | CO4 K3 |
| 19.b. Name and describe the triangles of the neck with their contents.   | CO4 K2 |
| 20.a. Describe the ventricles of the brain with their clinical significance.<br>(or)                             | CO5 K3 |
| 20.b. List and describe the cranial nerves with their functional components.                                     | CO5 K3 |

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