

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Science  
End Sem Examination Dec-2023  
FS3CO03 Human Anatomy

Programme: B.Sc. (Hons.)

Branch/Specialisation: Forensic  
Science

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Lysosomes are produced by which of the following cell organelles? 1  
(a) Mitochondria (b) Golgi Complex  
(c) Endoplasmic reticulum (d) DNA
- ii. Which of the following best describes the location of the chest? 1  
(a) Inferior to the vertebral column  
(b) Superior to the vertebral column  
(c) Posterior to the vertebral column  
(d) Anterior to the vertebral column
- iii. Which of the following is the large bone found superior to the patella and inferior to the ischium? 1  
(a) Calcaneus (b) Femur  
(c) Tibia (d) Symphysis pubis
- iv. The physician directs the medical assistant to complete a request form for an X-ray study of the tibia. The procedure will be performed on which of the following structures? 1  
(a) Heel (b) Lower leg  
(c) Toes (d) Thigh
- v. Which structures are found in the midbrain? 1  
(a) Corpora quadrigemina (b) Epithalamus  
(c) Cerebral aqueduct (d) Basal nuclei

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- vi. Which of the following is an example of integration by the nervous system? **1**  
 (a) The feel of a cold breeze  
 (b) Shivering and goose bumps in response to cold  
 (c) Perceiving the sound of rain  
 (d) The decision to go back for an umbrella
- vii. Which cell type(s) form the alveolar wall? **1**  
 (a) Red blood cells (b) Squamous epithelial cells  
 (c) Macrophages (d) Surfactant-secreting cells
- viii. When you inhale, air flows through respiratory structures in which sequence? **1**  
 (a) Alveolus, bronchiole, bronchus, larynx, trachea, pharynx, nasal cavity  
 (b) Alveolus, trachea, bronchus, bronchiole, larynx, pharynx, nasal cavity  
 (c) Alveolus, bronchus, bronchiole, trachea, larynx, pharynx, nasal cavity  
 (d) None of these
- ix. Glisson's capsule are found in- **1**  
 (a) Liver (b) Kidney (c) Pancreas (d) Intestinal Wall
- x. Which of the following is considered as power house of digestion? **1**  
 (a) Pancreas (b) Lysosome  
 (c) Mitochondria (d) Vacuoles
- Q.2 i. Define cell junctions. **2**  
 ii. Explain embryonic period. **3**  
 iii. Explain the following terms- **5**  
 (a) Body cavities (b) Quadrants  
 (c) Inguinal (d) Popliteal  
 (e) Sural
- OR iv. Mr. Ram got fracture in his right lower arm. He may have done extensive damage to his entire lower limb. The emergency room technician would like an X-ray film of his lower limb in the anatomical position. Use the proper anatomical terms to describe the position of Mr. Sharma's lower limb. **5**

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- Q.3 i. Draw a well labelled diagram of skin. **2**  
 ii. Discuss different classification of bone. **8**  
 OR iii. Explain anatomy of a typical long bone. **8**
- Q.4 i. Draw a well labelled structure of heart. **3**  
 ii. Discuss anatomy of blood vessels. **7**  
 OR iii. Discuss anatomy of respiratory system. **7**
- Q.5 i. Draw well labelled diagram of nerve cell. **4**  
 ii. Write short note on: **6**  
 (a) Spinal nerves (b) Endocrine glands
- OR iii. Define the following structures: **6**  
 (a) Histology of neurons (b) Neural circuits  
 (c) Neuroglia
- Q.6 Attempt any two:  
 i. Discuss anatomy of digestive system. **5**  
 ii. Discuss functions of liver and draw well labelled structure. **5**  
 iii. Explain functions of intestine and draw well labelled structure of buccal cavity. **5**

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