



BRAINWARE UNIVERSITY

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Term End Examination 2025-2026

Programme – B.Sc.(MLT)-2022/B.Sc.(MLT)-2023/B.Sc.(MLT)-2024/B.Sc.(MLT)-2025

Course Name – Human Anatomy

Course Code - BMLTC101

(Semester I)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) State which of the following types of cartilage is present at the joints of long bones in humans.
- | | |
|------------|--------------|
| a) Fibrous | b) Hyaline |
| c) Elastic | d) Calcified |
- (ii) Identify the hardest bone in the body.
- | | |
|------------|-------------|
| a) Maxilla | b) Mandible |
| c) Femur | d) Patella |
- (iii) Interpret that spinal cord originates from which part of the brain?
- | | |
|---------------|-------------|
| a) Cerebellum | b) Medulla |
| c) Pons | d) Cerebrum |
- (iv) Cite the cranial nerve which regulates the heartbeat.
- | | |
|--------|---------|
| a) VII | b) VIII |
| c) IX | d) X |
- (v) Select which body cavity contain Pituitary Gland.
- | | |
|--------------|-----------|
| a) Cranial | b) Spinal |
| c) Abdominal | d) brain |
- (vi) Identify the following respiratory organs in correct order: 1) lungs 2)Pharynx 3)Trachea 4) larynx , select the correct sequence.
- | | |
|------------|------------|
| a) 2-4-3-1 | b) 4-3-2-1 |
| c) 2-4-1-3 | d) 1-2-3-4 |
- (vii) Solve, which part of the human lungs provide surface for the exchange of gasses.
- | | |
|--------------|----------------|
| a) Diaphragm | b) Bronchioles |
| c) Bronchi | d) Alveoli |
- (viii) Name the sectional plane that divides the body into anterior and posterior portions.
- | | |
|-------------------|------------------|
| a) Sagittal plane | b) Coronal plane |
|-------------------|------------------|

- c) Transverse plane
 d) Oblique plane
- (ix) Choose the hinge joint amongst the following.
 a) Wrist
 b) Elbow
 c) Shoulder
 d) None of these
- (x) Select the tissue which is not connective in nature.
 a) Blood
 b) Areolar
 c) Cartilage
 d) Spinal cord
- (xi) Identify the outer layer of muscle tissue.
 a) Epineurium
 b) Epimysium
 c) Endoneurium
 d) Endomysium
- (xii) Select the part of the neuron.
 a) Tuberosity
 b) Axon
 c) Peritoneum
 d) Epithelium
- (xiii) State the type of bone tissue that is dense, strong, and forms the outer layer of bones:
 a) Spongy bone
 b) Compact Bone
 c) Cartilage
 d) Bone Marrow
- (xiv) Identify the mediastinum, where the heart lies.
 a) Superior mediastinum
 b) Anterior mediastinum
 c) Middle mediastinum
 d) Posterior mediastinum
- (xv) Identify which mediastinal compartment contains the brachiocephalic veins and the arch of the aorta.
 a) Superior mediastinum
 b) Anterior mediastinum
 c) Middle mediastinum
 d) Posterior mediastinum

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Discriminate between macroscopic and microscopic anatomy. (3)
3. Define the Lithotomy position. (3)
4. Describe the term "The Anatomical Position". (3)
5. Identify the bones forming lower limbs in humans. (3)
6. Analyze the importance of fontanelles in fetal skull. (3)

OR

- Analyze the importance of sutures in human skull. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain different anatomical positions with their significance. (5)
8. Enumerate the different sectional planes with their importance in anatomical study. (5)
9. Justify the importance of "The Anatomical Position" in Anatomy with a neatly labeled diagram. (5)
10. Discuss in detail about the Sagittal plane. (5)
11. Explain the different germ layers and body structures developing from them. (5)
12. Differentiate the anatomy of the blood vessels related to the heart and correlate them with the cardiac cycle. (5)

OR

- Analyze the anatomy of the Heart with a neatly labeled diagram. (5)
