



# BRAINWARE UNIVERSITY

**Term End Examination 2022**  
**Programme – B.Sc.(MLT)-2022**  
**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) Infer the incorrect option for Hypothyroidism
- |             |                |
|-------------|----------------|
| a) Lethargy | b) Diarrhoea   |
| c) Anorexia | d) Weight Gain |
- (ii) Express the hormone pair responsible for fight-or-flight response
- |                         |                                 |
|-------------------------|---------------------------------|
| a) Insulin & Glucagon   | b) Epinephrine & Norepinephrine |
| c) Thyroxin & Melatonin | d) Estrogen & Progesterone      |
- (iii) Choose ,this is the reason why the SA node acts as heart's pacemaker
- |   |  |
|---|--|
| a) because it has a poor cholinergic innervations   | b) because it has a rich sympathetic innervations    |
| c) because of its capability of generating impulses | d) because it generates impulses at the highest rate |
- (iv) Judge first branch of the human aorta is
- |                           |                               |
|---------------------------|-------------------------------|
| a) Left subclavian artery | b) Brachiocephalic artery     |
| c) Coronary artery        | d) Left common carotid artery |
- (v) Predict,hepatic portal system originates from
- |              |                                   |
|--------------|-----------------------------------|
| a) kidney    | b) liver                          |
| c) diaphragm | d) diff parts of alimentary canal |
- (vi) select ,scapula is large triangular flat bone situated in the dorsal part of the thorax between.
- |                      |                       |
|----------------------|-----------------------|
| a) second and fifth  | b) second and seventh |
| c) third and seventh | d) forth and seventh  |
- (vii) Name which of the following disease is associated with ribs?
- |              |              |
|--------------|--------------|
| a) beri beri | b) synovitis |
| c) bursitis  | d) rickets   |
- (viii) Distinguish the structure by which kidneys are protected
- |                  |                    |
|------------------|--------------------|
| a) last two ribs | b) last four ribs  |
| c) last six ribs | d) last eight ribs |
- (ix) Name frontal planes are also called

- a) Coronal planes  
 c) Horizontal plane
- b) axial plane  
 d) Oblique planes
- (x) Infer the falx cerebri developing from the durometer is present between
- a) Brain and spinal cord  
 c) Cerebral hemispheres
- b) Cerebellar hemispheres  
 d) Subdural and epidural space
- (xi) Explain which of the following structure at a synapse has the neurotransmitter?
- a) Schwann cells  
 c) Synaptic knobs
- b) Synaptic cleft  
 d) Synaptic vesicles
- (xii) Identify which of the following is NOT a function of cerebrospinal fluid:
- a) to exchange nutrients and metabolic waste  
 c) to provide mechanical protection to the brain
- b) to improve conduction of nerve signals between different brain regions  
 d) to carry neuroactive hormones in the nervous system
- (xiii) Distinguish the inner wall of GI tract
- a) Fibrous Layer  
 c) Mucus Layer
- b) Serous Layer  
 d) Sub mucus Layer
- (xiv) Select the respiratory structure where gaseous exchange doesn't take place
- a) Terminal Bronchiole  
 c) Alveolar Tracts
- b) Respiratory Bronchiole  
 d) Alveolar Sac
- (xv) Choose the endocrine gland which secretes ADH
- a) Anterior Pituitary  
 c) Liver
- b) Thyroid Gland  
 d) Posterior Pituitary

**Group-B**

(Short Answer Type Questions)

3 x 5=15

2. Illustrate with example regarding different positions of the body. (3)
3. Interpret the structure of human upper limb. (3)
4. Construct the functions of intercostal muscles in thorax. (3)
5. Categorize the cranial nerves along with their respective functions. (3)
6. Express the importance of sutures in human skull. (3)

**OR**

Write the names as well as functions of different segments of vertebral column. (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

7. Recall different body movements along with examples. (5)
8. Differentiate between anatomy and physiology. (5)
9. Write in brief about axial skeleton. (5)
10. Evaluate the functions of muscles in respiration. (5)
11. Report the factors affecting the normal functioning of nervous system. (5)
12. Correlate the structure of cardiac muscle along with its function as syncytium with proper histological diagram. (5)

**OR**

Draw a diagram of Human Skull showing all the cranial and facial bones. (5)

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