



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(OTT)-2022/B.Sc.(OTT)-2023/B.Sc.(CCT)-2023

Course Name – Human Anatomy

Course Code - BOTTC101/BCCTC101

(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 what connects bone to bone

- | | |
|--------------|--------------|
| a) tendons | b) ligaments |
| c) cartilage | d) areolar |

(ii) Identify the location of the urinary bladder in the human body.

- | | |
|------------|-----------|
| a) Abdomen | b) Thorax |
| c) Pelvis | d) Head |

(iii) select which joint is Immovable from the following options?

- | | |
|------------------------|--------------------|
| a) Synovial joint | b) Ball and socket |
| c) cartilaginous joint | d) fibrous joint |

(iv) Select the structure which shows presence of pseudo-stratified ciliated columnar epithelium in mucosa along with presence of mixed glands in submucosa

- | | |
|--------------------|------------------------|
| a) trachea | b) alveoli |
| c) laryngo-pharynx | d) terminal bronchiole |

(v) Identify the area which shows tenderness in case of appendicitis

- | | |
|-------------------|----------------------|
| a) Ster nal angle | b) Jugular notch |
| c) Epigastrium | d) Mac burneys point |

(vi) select which of the following condition are likely to lead to obstructive jaundice.

- | | |
|----------------------------------|-------------------------|
| a) carcinoma of head of pancreas | b) chole-doco-lithiasis |
| c) both option a nd b | d) hiatus hernia |

(vii) select the correct vertebral coloum of human being

- | | |
|-----------------------|-----------------------|
| a) C7 Th12 L5 S5 Co4 | b) C7 Th12 L6 S4 Co8 |
| c) C7 Th 12 l5 S5 Co3 | d) C7 Th 13 L5 S4 Co5 |

(viii) Identify the condition- collection of air in pleural cavity

- | | |
|----------------|---------------------|
| a) haemothorax | b) pneumothorax |
| c) Empyema | d) pleural effusion |

(ix) Judge the space which separates arachnoid mater and durometer is

- a) Epidural
c) Subdural
- b) Mediastinum
d) Subarachnoid
- (x) Sternal angle lies at the lower border of which vertebrae
- a) T3
c) T4
- b) T2
d) T5
- (xi) connective tissue around individual muscle. Choose the correct option
- a) perimysium
c) epimysium
- b) endomysium
d) none
- (xii) Solve, which part of the human lungs provide surface for the exchange of gasses
- a) Diaphragm
c) bronchi
- b) bronchioles
d) alveoli
- (xiii) tissue join to form organ. various organs work together. name the term used to describe them.
- a) tissue group
c) organ class
- b) organ system
d) macro molecular group
- (xiv) choose the structure which separates thoracic cavity from abdominal cavity
- a) diaphragm
c) false ribs
- b) iliac crest
d) xiphoid process
- (xv) Recall sphincter urethrae membranacea is found around which part of which part of urethrae.
- a) membranous urethra
c) Bulbous urethrae
- b) penile urethra
d) prostatic urethra

Group-B

(Short Answer Type Questions)

 $3 \times 5 = 15$

2. write about the structure of long bone with proper diagram? (3)
3. write about origin and branches of right and left coronary artery (3)
4. Describe mediastinum- boundary and contents of mediastinum? (3)
5. Write about the anatomical structure of the appendix? Write few clinical conditions associated with hepatobiliary tree? (3)
6. Compose a flowchart showing the negative feedback mechanism for controlling the gonadal hormones. (3)

OR

Structure the anatomy of adrenal gland and also mention the names of different hormones secreted from those parts. (3)

Group-C

(Long Answer Type Questions)

 $5 \times 6 = 30$

7. Illustrate the following: a)asthama b)tidal volume c)residual volume (5)
8. Describe the surface features of urinary bladder with proper diagram. Mention the internal trigone of bladder? (5)
9. Organize a table demonstrating the location & function of GI Hormones. (5)
10. Explain the CSF pathway with proper diagram also describe clinical significance? (5)
11. Explain axial and appendicular skeleton. Define components of axial and appendicular skeleton with proper diagram. Also describe the joints visible in appendicular skeleton? (5)
12. Summarize parts of female reproductive system and briefly explain the same. (5)

OR

Decide and discuss about male reproductive system (5)
