



## BRAINWARE UNIVERSITY

### Term End Semester Examinations, July- 2024

Programme – Bachelor of Science in Nursing

Course Name – Applied Anatomy and Applied Physiology

Course Code – ANAT 105 & PHYS 110

(Semester – I)

**Time allotted: 3 hrs.**

**Full Marks: 75**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

### Section – A

#### (Applied Anatomy)

**Marks - 37**

#### Group – A (Multiple Choice Question)

**6 x 1 = 6**

**1. Select the correct answer of the following :-**

- i) Identify the position of forearms in the anatomical position
  - a. Pronated
  - b. Supinated
  - c. Mid prone
  - d. None of these
- ii) Maximum amount of air forcibly exhale from the lung is
  - a. Tidal Volume
  - b. Inspiratory reserve volume
  - c. Vital Capacity
  - d. Total lung Capacity
- iii) Mention the following is **NOT** one of the four primary test sensations.
  - a. Spice
  - b. Sour
  - c. Bitter
  - d. Salty
- iv) The auditory ossicles that is in direct contact with the tympanic membrane is
  - a. Incus
  - b. Stepes
  - c. Malleus
  - d. Semicircular canals
- v) Total number of vertebra is
  - a. 26
  - b. 25
  - c. 29
  - d. 27
- vi) Vaginal Ph is
  - a. 2-3.5
  - b. 3.5-5
  - c. 5-7
  - d. 7-9



- iv) The body system is involved in the removal of carbon dioxide.
- |                       |                        |
|-----------------------|------------------------|
| a. Respiratory system | b. Digestive system    |
| c. Urinary system     | d. Reproductive system |
- v) The blood vessel which carries blood into left atrium
- |                       |                       |
|-----------------------|-----------------------|
| a. Pulmonary veins    | b. Inferior Vena cava |
| c. Superior vena cava | d. Pulmonary Artery   |
- vi) Growth hormone is secreted from
- |                             |                 |
|-----------------------------|-----------------|
| a. Anterior pituitary gland | b. Pineal gland |
| c. Thyroid gland            | d. Pancreas     |
- vii) Identify the hormone reaches it's peak in ovulation
- |              |                 |
|--------------|-----------------|
| a. LH        | b. Progesterone |
| c. Oestrogen | d. FSH          |

**Group – B (Essay/ Long answer type question)**

**1 x 10 = 10**

*(Answer Any One Question)*

6. Discuss the conduction system of the heart. [10]
- OR Discuss the transportation of gases between lungs and tissues. [10]

**Group – C (Short answer type question)**

**3 x 5 = 15**

7. Write short notes *(Answer Any Three Questions)*

- |                             |     |
|-----------------------------|-----|
| a. Gastric juice            | [5] |
| b. Epithelial tissue        | [5] |
| c. Chromosome               | [5] |
| d. Functions of vagus nerve | [5] |

**Group – D (Very short answer type question)**

**3 x 2 = 6**

8. Write in short *(Answer Any Three Questions)*

- |  |     |
|--|-----|
| a. Rectus Abdominis muscle                 | [2] |
| b. List down the functions of Mitochondria | [2] |
| c. Glycemic Index                          | [2] |
| d. Plasma protein                          | [2] |