



## BRAINWARE UNIVERSITY

### Term End Semester Examinations, Jan- 2023

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) Fat soluble vitamin is                           | a Vitamin E                   | b Vitamin B2                  |
|   | c Vitamin C                   | d Vitamin B1                  |
| ii) Vitamin responsible for blood clotting is       | a Vitamin C                   | b Vitamin K                   |
|   | c Vitamin B6                  | d Vitamin A                   |
| iii) Ductless glands are described as               | a Endocrine gland             | b Paracrine gland             |
|   | c Exocrine gland              | d Apocrine gland              |
| iv) Functional unit of Nervous tissue is            | a Astrocytes                  | b Neurones                    |
|   | c Oligodendrites              | d Schwann cells               |
| v) Which is true about thymus gland                 | a It produces B cell          | b It produces T cells         |
|   | c It stops working as you age | d All of the above is correct |
| vi) Which of the membrane that surrounds the lungs? | a Visceral peritoneum         | b Parietal peritoneum         |
|   | c Visceral pleura             | d Dura mater                  |

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

**1 x 10 = 10**

*(Answer Any One Question)*

2. Enumerate the different special sensory organs of human body. Describe detailed about EYE.

3+7=10

**OR** Describe Stomach under following points

2+2+4+2

- a. Location and organs in association
- b. Outer structure
- c. Inner structure
- d. Blood supply

=10

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

**3 x 5 = 15**

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

- a. Classification of joints
- b. Leukocytes
- c. Spinal Cord
- d. Nephron
- e. Blood group

[5]

[5]

[5]

[5]

[5]

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

**3 x 2 = 6**

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

- a. Define the parts of brainstem.
- b. Name the ventricles of brain.
- c. Name the bones present in ear
- d. List down the parts of bronchial tree

[2]

[2]

[2]

[2]

**Section – B**

**(Applied Physiology)**

**Marks - 38**

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

**7 x 1 = 7**

5. Select the correct answer of the following :-

i) Platelets play a part in:

a Clotting

b Cellular production

c Manufacture white Blood cell

d Transporting Carbon dioxide

ii) The ileum is responsible for the reabsorption of:

a Vitamin A

b Vitamin B12

c Vitamin C

d Iron

iii) Which of the clinical manifestations would support a nursing diagnosis to decrease cardiac output?

- a Cool, moist Skin
  - b Bouncing peripheral Pulse
  - c Increased urinary Output
  - d Diminished breath sound
- CSF is produced by
- a Dendrites
  - b Choroid Plexus
  - c Meninges
  - d Cell body
- Straightening of the knee is termed as
- a Flexion
  - b Extension
  - c Adduction
  - d Abduction
- Which of the following cells in the pancreas make insulin?
- a Epithelial cells
  - b Hepatic cell
  - c Geerm cell
  - d Ilets Cell
- The functions of the skin are to:
- a Regulate body temperature
  - b Prevents entry of Microorganism
  - c Prevent loss of water
  - d All of the above

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

**1 x 10 = 10**

*(Answer Any One Question)*

- 6. Explanation of the steps involved in blood coagulation. [7+3 =10]  
 Classification of anticoagulants according to their action with examples.
- OR Explain the conduction system of the Heart. Define Tachycardia and bradycardia. [6+2+2=10]

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

**3 x 5 = 15**

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

- a. Menstrual cycle [5]
- b. Healing process of Bone [5]
- c. Milk ejection reflex [5]
- d. Systemic circulation [5]
- e. Carbohydrate digestion [5]

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

**3 x 2 = 6**

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

- a. Tidal volume and Vital capacity [2]
- b. Haversian system [2]
- c. Function of Cerebellum [2]
- d. Pregnancy test [2]
- e. Factors affecting Blood pressure [2]