



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc. Nursing-2024

Course Name – Applied Anatomy & Applied Physiology

Course Code - ANAT 105 & PHYS 110

(Semester I)

Full Marks : 75

Time : 3:0 Hours

[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 Type Question)**

6 x 1=6

1. Choose the correct alternative from the following :

- (i) Identify the name of position in which lateral rotation of the radius, making the palm face anteriorly
 - a) Pronated
 - b) Supinated
 - c) Midprone
 - d) Sideline
- (ii) Name the correct statement of two daughter cells formed by mitosis have:
 - a) Identical Genetic constitutions
 - b) Half as many genes of parent cell
 - c) Same cytoplasm
 - d) None of these
- (iii) Name the part of the ear that contains the ossicles (malleus, incus, stapes)
 - a) Outer ear
 - b) Auditory canal
 - c) Inner ear
 - d) Middle ear
- (iv) Which blood vessel carries oxygenated blood to the kidneys?
 - a) Renal vein
 - b) Hepatic artery
 - c) Renal artery
 - d) Aorta
- (v) Identify the layer of the uterus shed during menstruation:
 - a) Myometrium
 - b) Perimetrium
 - c) Endometrium
 - d) Epimetrium
- (vi) Identify the part of the neuron that receives signals:
 - a) Axon
 - b) Dendrite
 - c) Axon hillock
 - d) Terminal bouton

Group-B
(Long Answer Type Questions)

1 x 10 = 10

2. Classify the bones with examples. Discuss detailed account of Humerus. 5+5=10 (10)
- OR
- Outline a labelled diagram of female reproductive system showing the parts. 5+5=10 (10)
- Elaborate on parts of Falloplan tube with a figure.

Group-C
(Short Answer Type Questions)

3 x 5 = 15

3. Illustrate systemic circulation with a neat labelled diagram. (5)
4. Construct a short note on Blood Group (5)
5. Discuss on structure of lungs. (5)

OR

(5)

Discuss the layers of skin in detail.

Group-D
(Very Short Answer Type Questions)

3 x 2 = 6

6. Classify Muscles (2)
7. List out the parts of Nephron. (2)
8. Distinguish between sympathetic and parasympathetic nervous system (2)

Marks : 32

Section : B
(Applied Physiology)

Group-A
(Multiple Choice Type Question)

7 x 1 = 7

9. Choose the correct alternative from the following :

- (i) Name the membrane that lines joint cavities:
- a) Serous membrane b) Mucous membrane
- c) Synovial membrane d) Cutaneous membrane
- (ii) Compare between active and passive transport by selecting the feature unique to active transport:
- a) Moves molecules down concentration gradient b) Requires carrier proteins
- c) Requires ATP energy d) Can transport water molecules
- (iii) Name the condition characterized by bluish discoloration of skin due to deoxygenated hemoglobin:
- a) Dyspnea b) Cyanosis
- c) Hypoxia d) Hypercapnia
- (iv) Omit the structure NOT part of the heart's conduction system.
- a) SA node b) AV valve
- c) Bundle of His d) Purkinje fibers
- (v) Identify the WBC responsible for antibody production.
- a) Basophil b) B-lymphocyte
- c) Monocyte d) Neutrophil
- (vi) Omit the hormone NOT produced by the anterior pituitary.
- a) TSH b) ADH (Vasopressin)
- c) FSH d) LH
- (vii) Name the cell responsible for bone formation.
- a) Fibroblast b) Osteoclast
- c) Osteoblast d) Chondrocyte

