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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 **Marks : 37**
(Applied Anatomy)

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 contitutions 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

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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. (10)
Elaborate on parts of Fallopian tube with a figure. 5+5=10

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

Discuss the layers of skin in detail. (5)

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 bwtween sympathetic and parasympathetic nervous system (2)

Section : B **Marks : 38**
(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

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Group-B
(Long Answer Type Questions) 1 x 10=10

10. List the hormones secreted by pituitary gland and determine their functions (10)

OR

Classify Nervous system in details. Explain the types of cranial nerves and its functions. 5+5=10 (10)

Group-C
(Short Answer Type Questions) 3 x 5=15

11. Elaborate the functions of plasma membrane (5)
12. Distinguish Endocrine and exocrine gland with suitable examples (5)
13. Classify WBCs and discuss the functions. (5)

OR

Discuss the functions of bones in details. (5)

Group-D
(Very Short Answer Type Questions) 3 x 2=6

14. Recall two functions of RBCs (2)
15. Define Gigantism (2)
16. Distinguish between spongy and hard bone (2)

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