



BRAINWARE UNIVERSITY

Term End Semester Examinations, Jan- 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 Questions)

6 x 1 = 6

1. Select the correct answer of the following:-
 - i) Define Abduction:

a. Movement away from the central axis.	b. Movement toward central axis.
c. Approximation of the ventral surfaces	d. Approximation of the dorsal surfaces
 - ii) Trachea is lined by

a. Pseudo stratified columnar ciliated epithelium	b. Ciliated columnar epithelium
c. Simple columnar epithelium	d. Stratified squamous epithelium
 - iii) Point out the part the iron is actively absorbed in:

a. Liver	b. Duodenum and proximal jejunam
c. Large intestine	d. Ileum
 - iv) Longest vein in human body is

a. Jugular vein	b. Superior vena cava
c. Great saphenous vein	d. Inferior vena cava
 - v) Mention the milk ejecting hormone

a. Oxytocin	b. Prolactin
c. Progesterone	d. Estrogen
 - vi) Cochlea is the part of ...

a. Middle ear	b. Inner ear
c. External Ear	d. All of above

Group – B (Essay/ Long answer type question)

1 x

(Answer Any One Question)

2. Name the parts of GI system with the help of neat labelled diagram.
Describe the structure of Stomach.

3+7=

- OR** Discuss the structure of skull in details with diagram.
Describe the parts of brain.

3 + 7

Group – C (Short answer type question)

3 x

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

- a. Draw the structure of thyroid glands.
b. Describe the synovial joint.
c. Discuss the structure of a neuron with the diagram.
d. Spermatogenesis.

[5]

[5]

[5]

[5]

Group – D (Very short answer type questions)

3 :

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

- a. Tidal Volume.
b. Classify joints.
c. Enlist different Cranial nerves.
d. Enlist Types of body movements.

[2]

[2]

[2]

[2]

Section – B

(Applied Physiology)

Marks

Group – A (Multiple Choice Question)

7 x 1 =

5. Select the correct answer of the following:-

- i) Identify fat soluble vitamin is
a. Vitamin E
b. Vitamin B
c. Vitamin C
d. Vitamin D
- ii) Identify muscles used in quite respiration are all, EXCEPT
a. Internal intercostal muscles
b. External intercostal muscles
c. Diaphragm
d. Sternocleidomastoid muscle
- iii) Permanent over distension of alveoli is known as-
a. Emphyema
b. Emphysema
c. Pneumothorax
d. Dyspnea

- iv) Pyloric sphincter is situated at-
- a. Heart
 - b. Diaphragm
 - c. End of stomach
 - d. End of esophagus
- v) B lymphocytes are primarily involved in
- a. Humoral immunity
 - b. Graft rejection
 - c. Autoimmune disorders
 - d. Cell mediated
- vi) Anterior pituitary is known as
- a. Adeno hypophysis
 - b. Neuro hypophysis
 - c. Corpus calosum
 - d. Arachnoid villi
- vii) Loss of sense of smell is known as
- a. Anosmia
 - b. Hedonia
 - c. Anoxia
 - d. Aphasia

Group – B (Essay/ Long answer type question)

1 x 10 = 10

(Answer Any One Question)

6. Enumerate the functions of bone.

3+7=10

Discuss compositions of bone.

OR Discuss the mechanism of blood coagulation.

10

Group – C (Short answer type question)

3 x 5 = 15

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

a. Functions of WBCs.

[5]

b. Describe the physical changes during pregnancy.

[5]

c. Vitamins.

[5]

d. Mechanism of transport across the cell membrane.

[5]

Group – D (Very short answer type question)

3 x 2 = 6

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

a. Define Blood pressure

[2]

b. Define Myopia

[2]

c. Define Oncogenes.

[2]

d. Rectus femoris muscle

[2]