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First semester B.Sc. Nursing Examination, Summer - 2024

Phase - II

APPLIED ANATOMY & APPLIED PHYSIOLOGY

Total Duration : Section A+B+C = 3 Hours

Section B&C Marks : 62

SECTION - B & SECTION - C

- Instructions :
- 1) Use black ball point pen only.
 - 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) All questions are compulsory.
 - 4) The number to the right indicates full marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover the entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answer book for section B & C.

SECTION - B (Applied Anatomy)

2) Long Answer Questions (any one out of two) [1 × 10 = 10]

a) Describe the Brachial plexus under the following headings

- i) Formation
- ii) Branches
- iii) Applied anatomy

b) Describe the Hip joint under the following headings

- i) Articular surfaces
- ii) Ligaments
- iii) Muscles involved in movement

3) Short Answer Questions (any three out of four) [3 × 5 = 15]

a) Name the chambers of the heart and elaborate the openings in the right atrium.

b) Define mediastinum and describe the contents of mediastinum

c) Explain the supports of Uterus

d) Describe Bronchopulmonary segments

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[3 × 2 = 6]

- 4) Short Answer Questions (Solve any 3 out of 4)
- a) Enlist the factors causing a right shift of the Oxygen dissociation curve.
 - b) Classify the receptors based on location
 - c) List the lobes of Cerebrum
 - d) Enumerate the functions of blood.

SECTION - C (Applied Physiology)

- 5) Long Answer Questions (Solve any 1 out of 2) [1 × 10 = 10]

- a) Explain the physiology of Pulmonary Ventilation and relate compliance and airway resistance to it.
- b) Define digestion and explain the phases of digestion. Distinguish between chemical and mechanical digestion processes.

- 6) Short Answer Questions (Solve any 3 out of 4) [3 × 5 = 15]

- a) Define and classify anemia
- b) Define Glomerular Filtration Rate (GFR) and explain the factors affecting GFR
- c) Explain Thermoregulation in humans.
- d) Explain the Formation and circulation of cerebrospinal fluid

- 7) Short Answer Questions (Solve any 3 out of 4) [3 × 2 = 6]

- a) The Medial Meniscus is often injured. Give reason.
- b) Label the planes in the given figure $\Rightarrow$ Replace with "Neuron"
- c) Describe the cell membrane in brief
- d) Classify the types of simple Epithelium

