

**First Semester B.Sc. Nursing (2022) Examination,
Winter - 2024 Phase - III**

APPLIED ANATOMY & APPLIED PHYSIOLOGY

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

Section B & C Marks : 62

SECTION - B

- 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

- 2) **Long Answer Questions (Solve any 1 out of 2) :** **[1 × 10 = 10]**
- a) Explain kidney under following headings
 - i) Gross and microscopic structure of kidney
 - ii) Blood supply
 - iii) Renal colic
 - b) Describe Lungs under the following headings.
 - i) Gross structure
 - ii) Blood supply and lymphatic drainage
 - iii) Occupational hazards affecting the lungs
- 3) **Short Answer Questions (Solve any 3 out of 4) :** **[3 × 5 = 15]**
- a) Draw the structure of the Skin and explain the Dermis layer.
 - b) Composition and function of Salivary Glands.
 - c) Draw a labeled diagram of the pelvic girdle and describe it.
 - d) Explain the structure of the Neuron.

4) Short Answer Questions (Solve any 3 Out of 4) : **[3 × 2 = 6]**

- a) Enumerate the parts of the small intestine.
- b) List the intrinsic muscles of the eyeball.
- c) Enumerate the types of Neuroglia.
- d) Classify the fontanelles of the skull.

SECTION - C

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

- a) Define immunity and classify it. Explain factors affecting Immunity.
- b) Define the Cardiac cycle and describe the various events of the cardiac cycle. Enlist the factors affecting the cardiac cycle.

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

- a) Explain the Blood Pressure regulation by the kidney with a flow chart.
- b) Explain the blood clotting mechanism.
- c) Describe the composition of Lymph.
- d) Illustrate the factors affecting Heart rate.

7) Short Answer Questions (Solve any 3 Out of 4) : **[3 × 2 = 6]**

- a) Define total lung capacity.
- b) List any four functions of Cerebrospinal fluid.
- c) Enumerate any four functions of Liver.
- d) List the important sources of Carbohydrates.

