

**First Basic B.Sc. (Nursing) Examination, Summer - 2024**  
**Phase - II**  
**ANATOMY AND PHYSIOLOGY**

Total Duration : 3 Hours

Total Marks : 75

- 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 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 answerbook for all sections.**

**SECTION - A (42 Marks)**

**(Anatomy)**

1. **Short answer questions (any six out of seven) :** **[6 × 5 = 30]**
  - a) Discuss Relations of urinary bladder in male.
  - b) Explain Structure of the skin.
  - c) Describe Endoplasmic Reticulum.
  - d) Explain Muscles of gluteal region.
  - e) Discuss structure of cell.
  - f) Explain the Difference between small and large intestine.
  - g) Explain structure of the heart.
  
2. **Long answer questions (any one out of two) :** **[1 × 12 = 12]**
  - a) Describe thyroid gland under following headings:
    - i) Morphology & location
    - ii) Relations
    - iii) Blood supply
    - iv) Applied anatomy

- b) Describe left lung under following heads :
- i) Features
  - ii) Mediastinal surface
  - iii) Root
  - iv) Clinical anatomy

**SECTION - B (33 Marks)**

**(Physiology)**

3. Short answer questions (any four out of five) : [4 × 5 = 20]
- a) · Explain Process of blood coagulation.
  - b) Discuss Immunity.
  - c) · Explain Functions of the skin.
  - d) , Discuss Conduction system of the Heart.
  - e) ' Discuss functions of the Gastric juice. †
4. Long answer questions (any one out of two) : [1 × 13 = 13]
- a) Enumerate composition of cerebrospinal fluid (CSF). Describe reflex arc. [6]
  - b) Explain types of lung volumes. Describe physiology of respiration. [7]

OR

**Long answer question :**

[1 × 13 = 13]

- a) Explain mechanism of absorption of food. [6]
- b) Define Glomerular Filtration Rate (GFR). Explain factors affecting GFR. [7]

