

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

Total Duration : Section A + B = 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) Explain Structure of stomach.
- b) Describe Gross anatomy of the eye.
- c) Discuss functions of Lungs.
- d) Explain Popliteal Fossa.
- e) Discuss Mechanical support of the uterus.
- f) Explain Conduction system of heart.
- g) Describe Mitochondria.



2. Long Answer Questions (**any one** out of two) :

[1×12=12]

- a) Describe hip joint under following heads:
  - 1) Articular surfaces
  - 2) Ligaments
  - 3) Movements and muscles producing movement.
- b) Describe pancreas under following heads:
  - 1) Relations
  - 2) Blood and Nerve supply
  - 3) Applied anatomy.

**SECTION - B (33 Marks)**

**(Physiology)**

3. Short Answer Questions (**any four** out of five) :

[4×5=20]

- a) Discuss Cardiac cycle.
- b) Enumerate the Mechanism of urine formation.
- c) Explain Physiology of muscle contraction.
- d) Describe Functions of pancreas.
- e) Discuss Urea cycle.

4. Long Answer Question :

[1×13=13]

- a) Enumerate functions of pituitary gland. Describe suprarenal glands. [6]
- b) Explain pulmonary ventilation and its mechanism. [7]

OR

Long Answer Question :

- c) Explain mechanism of regulation of body temperature. [6]
- d) Enumerate functions of neurons. Explain circulation of cerebrospinal fluid. (CSF). [7]

