

**First Basic B.Sc. Nursing Examination, Winter  
(Phase - III All other remaining UG/PG Course) - 2019  
ANATOMY AND PHYSIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

**SECTION - A & SECTION - B**

- Instructions :**
- 1) Use **blue/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 answer book for all sections.

**SECTION - "A" (42 Marks)**

**(Anatomy)**

1. Short answer question (**any six** out of seven) : **[6 × 5 = 30]**
- a) Cubital fossa.
  - b) Morphological classification of bones.
  - c) Functions of cerebellum.
  - d) Supports of Uterus.
  - e) Sternocleidomastoid muscle.
  - f) Bare areas of liver.
  - g) Adductor canal.



2. Long answer question (any one out of two) :

[1 × 12 = 12]

- a) Describe heart under following heads:
  - i) External features (3)
  - ii) Valves (3)
  - iii) Blood supply (3)
  - iv) Applied Anatomy (3)
- b) Describe kidneys under following heads:
  - i) Morphology and Coverings (4)
  - ii) Relations (3)
  - iii) Blood supply (3)
  - iv) Applied Anatomy (2)

**SECTION - "B" (33 Marks)**  
**(Physiology)**

3. Short answer question (any four out of five) :

[4 × 5 = 20]

- a) Explain Lung Volumes and Capacities with the help of a neat labelled diagram.
- b) Define Glomerular Filtration Rate and write the factors affecting GFR.
- c) Functions of Blood.
- d) Actions of Insulin. Add a note on Diabetes Mellitus.
- e) Physiology of Hearing.

4. Long answer question :

[1 × 13 = 13]

- a) Describe the phases of Menstrual Cycle.
- b) Write in brief the hormonal regulation of Menstrual Cycle. Add a note on Ovulation.

OR

Long answer question :

[1 × 13 = 13]

- c) Define Arterial Blood Pressure, Systolic BP and Diastolic BP. Write a note on Physiological variations in Blood Pressure.
- d) Enumerate the Mechanisms of Blood Pressure Regulation. Describe in detail the short term regulation of Blood Pressure

