

First Basic B.Sc. Nursing Examination, Phase - II Summer - 2022

ANATOMY AND PHYSIOLOGY

Total Duration : 3 Hours

Total Marks : 75

- 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) Classify synovial joints with examples.
 - b) Blood supply of Heart.
 - c) Nerve supply of Tongue.
 - d) Vermiform appendix.
 - e) Boundaries & contents of cubital fossa.
 - f) Bronchopulmonary segment.
 - g) Inguinal hernia.

2. Long answer question (**any one** out of two): **[1 × 12 = 12]**
 - a) Describe breast under following headings:
 - i) Gross anatomy **[6]**
 - ii) Blood supply **[2]**
 - iii) Lymphatic drainage **[2]**
 - iv) Applied anatomy **[2]**
 - b) Describe stomach under following headings:
 - i) Gross anatomy **[6]**
 - ii) Blood supply & lymphatic drainage **[4]**
 - iii) Applied aspect **[2]**

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

3. Short answer question (**any four** out of five): **[4 × 5 = 20]**
- a) Classify blood groups. What is the importance of blood group determination?
 - b) Write composition and functions of gastric juice.
 - c) Describe the formation and functions of cerebrospinal fluid.
 - d) Comment about movements of alimentary tract.
 - e) Describe neuromuscular transmission.

4. Long answer question : **[1 × 13 = 13]**
- a) Draw a neat well labelled diagram of cardiac cycle. Add a note on impulse conduction from SA node to Purkinje system. **[6]**
 - b) Name the forms in which oxygen is transported in blood. Describe the carriage of oxygen by haemoglobin. **[7]**

OR

- Long answer question : **[1 × 13 = 13]**
- c) What is the mechanism of urine formation. Enumerate the different functions of kidney. **[6]**
 - d) Enumerate different lung volumes with definition and draw well labelled diagram of lung volumes and capacities. What is the clinical importance of forced expiratory volume in one second (FEV1). **[7]**

