

First Basic B.Sc. Nursing Examination, Summer 2018
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 answerbook for all sections.**

SECTION – A (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : **(6×5=30)**
 - a) Lymphatic drainage of mammary gland.
 - b) Bronchopulmonary segments.
 - c) Boundaries and contents of femoral triangle.
 - d) Constituents of the spermatic cord.
 - e) Relations of urinary bladder in male.
 - f) Sternocleidomastoid muscle.
 - g) Sulci and gyri on superolateral surface of cerebrum.

2. Long answer question (**any one** out of two) : **(1×12=12)**
 - a) Describe synovial joint under following heads :

i) Definition	2
ii) Characteristics	2
iii) Classification with example	6
iv) Applied anatomy	2



- b) Describe the stomach under following heads :
- i) External features and relations 3
 - ii) Blood supply 3
 - iii) Lymphatic Drainage 3
 - iv) Applied Anatomy 3

SECTION – B (33 Marks)

(Physiology)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Enumerate the properties of Skeletal muscle and describe any one in detail.
 - b) Compare and contrast between cortical and juxtaglomerular nephron.
 - c) Classify nerve fibers on the basis of conduction velocity and add a note on saltatory conduction.
 - d) Draw a well labelled diagram of ECG in lead II and give the normal values of all the intervals.
 - e) Describe the functions of hypothalamus.
4. Long answer question : (1×13=13)
- a) Define synapse, classify it and enumerate its properties. 6
 - b) Describe the mechanism of synaptic transmission. 7

OR

- Long answer question : (1×13=13)
- c) What is the physiological basis of Blood group ? Name the various Blood groups 6
 - d) What are the hazards of Blood transfusion ? 7