

First Basic B.Sc. Nursing Examination, Winter 2017
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) Secondary cartilaginous joint.
 - b) Stomach bed.
 - c) Popliteal fossa.
 - d) Bronchopulmonary segments.
 - e) Supports of uterus.
 - f) Sternocleidomastoid muscle.
 - g) Muscles of mastication.
2. Long answer question (**any one** out of two) : **(1×12=12)**
 - a) Describe shoulder joint under the following headings :
 - i) Type and articular surfaces **(2)**
 - ii) Ligaments **(3)**
 - iii) Movements and muscles producing movements **(4)**
 - iv) Applied anatomy **(3)**



b) Describe parotid gland under the following headings :

- i) Gross structure and relations (3)
- ii) Blood supply (3)
- iii) Nerve supply (3)
- iv) Applied Anatomy (3)

SECTION – B (33 Marks)

(Physiology)

3. Short answer question (any four out of five) : (4×5=20)

- a) Functions of Bile.
- b) Mechanisms of Blood Pressure regulation.
- c) Spermatogenesis.
- d) Functions of Skin.
- e) Define Diabetes Mellitus and explain Physiological actions of Insulin Hormone.

4. Long answer question. (1×13=13)

- a) Describe the process of Blood Coagulation. Write a note on bleeding time and clotting time. 6
- b) Describe the Neural regulation of Respiration. 7

OR

Long answer question :

- c) Define GFR. What are the factors regulating GFR ? 6
- d) Define and classify immunity. Write a note on role of B Lymphocytes in immunity. 7