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**First Basic B.Sc. Nursing Examination, Summer 2015**  
**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) Mitochondria.
  - b) Deltoid muscle.
  - c) Femoral Triangle.
  - d) Define Mediastinum. Mention its division and enumerate the contents of middle mediastinum.
  - e) Draw neat labelled diagram showing anterior relations of left kidney.
  - f) Describe nerve supply of tongue.
  - g) Describe blood supply of thyroid gland.

P.T.O.



2. Long answer question (**any one** out of two) : (1×12=12)

a) Describe stomach under the following heads :

a) Gross structure and relations (3)

b) Blood supply (3)

c) Lymphatic drainage (3)

d) Applied Anatomy (3)

b) Describe synovial joint under following heads :

a) Structure (3)

b) Classification (3)

c) Mechanism of lubrication (3)

d) Applied Anatomy (3)

### SECTION – B (33 Marks)

#### Physiology

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

a) Functions of Testosterone.

b) Enumerate the different blood group system. Importance of determination of blood groups.

c) Different mechanism for regulating body temperature.

d) Functions of thyroid hormones. Add a note on hypothyroidism.

e) Cerebrospinal fluid.

4. Long answer question : (1×13=13)

a) Define and describe the process of blood coagulation. 6

b) Composition and functions of gastric juice. Write briefly about phases of gastric secretion. 7

OR

Long answer question : (1×13=13)

c) Describe the process of Oxygen transport from lungs to tissues. 6

d) Define and draw a diagram of cardiac cycle. Describe the ventricular events in cardiac cycle. 7