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62501

First Basic B.Sc. Nursing Examination, Summer 2017  
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 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 answerbook for all Sections.*

## SECTION – A

(Anatomy)

(42 Marks)

1. Short answer question (any six out of seven) : (6×5=30)
- a) Boundaries and contents of axilla.
  - b) Interior of the right atrium.
  - c) Sartorius muscle.
  - d) Primary supports of uterus.
  - e) Differences between the small intestine and large intestine.
  - f) Nerve supply of tongue.
  - g) Morphological and functional divisions of cerebellum.
2. Long answer question (any one out of two) : (1×12=12)
- a) Describe rectus sheath under following heads :
    - i) Definition and Features 3
    - ii) Formation 3
    - iii) Contents 3
    - iv) Function and Applied anatomy. 3

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62501



- b) Describe left kidney under following heads :
- i) Anterior relations 3
  - ii) Posterior relations 3
  - iii) Arterial supply 2
  - iv) Venous drainage 2
  - v) Applied anatomy. 2

SECTION – B

(Physiology)

(33 Marks)

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

- a) Rh incompatibility.
- b) Puberty.
- c) Composition and Functions of Cerebrospinal Fluid (CSF).
- d) Actions of Thyroid hormone. Add a note on Hyperthyroidism.
- e) Explain the mechanism of muscle contraction.

4. Long answer question : (1×13=13)

- a) Describe the structure, synthesis and functions of Haemoglobin. Add a note on Anaemia. 6
- b) Define Cardiac Output. Explain the factors regulating Cardiac Output. 7

OR

Long answer question : (1×13=13)

- c) Describe the Composition and Functions of Pancreatic juice. 6
- d) Describe transport of Oxygen from lungs to the tissues. Draw a neat labelled diagram of Oxygen-Haemoglobin dissociation curve. 7