



BCD-21261 Seat No. \_\_\_\_\_

**First Year B. Sc. (Basic) (Nursing) Examination**

**January – 2016**

**Anatomy & Physiology : Paper - I**

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (i) Write each section in separate answer book.  
(ii) Draw diagrams wherever necessary.  
(iii) Mention clinical implications wherever necessary.

**SECTION - I (Anatomy)**

- 1 Enumerate types of muscle. Describe skeletal muscle in detail. 15

**OR**

- 1 What is cell ? Describe the parts of a cell in detail. 15

- 2 Write short notes : (any three) 3×5=15

- (a) Functions of bone
- (b) Synovial joint
- (c) Female reproductive system
- (d) Neuron
- (e) Blood vessels.

- 3 Answer briefly : (any four) 4×2=8

- (a) What is long bone ? Give two examples.
- (b) Name the accessory digestive organs.
- (c) Functions of a testis.
- (d) Functions of a spleen.
- (e) Enumerate the bones of axial skeleton.
- (f) Which artery of upper limb is most commonly used for measuring blood pressure ?

## SECTION - II (Physiology)

- 4** Describe : (any one) **10**
- (1) Lung volume and capacities
  - (2) Mechanism of muscle contraction.
- 5** Write short notes on : (any three) **15**
- (1) Cardiac output
  - (2) Glomerular filtration rate
  - (3) Functions of saliva
  - (4) Platelets.
- 6** Briefly answer the following : (All are compulsory) **12**
- (1) Functions of WBC.
  - (2) Define synapse.
  - (3) What is homeostasis ?
  - (4) Functions of kidney.
  - (5) Define blood pressure and write its normal value.
  - (6) Name hormones from adrenal cortex.
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