



**J-0855**

**Second Year B. Sc. (Medical Technology) Examination**

**March/April – 2013**

**Human Anatomy & Physiology : Paper - IV**

*(Old Course)*

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृश्यावल निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
**Second Year B. Sc. (Medical Technology)**

Name of the Subject :  
**Human Anatomy & Physiology : Paper - 4 (Old)**

Subject Code No. : **0 8 5 5** Section No. (1, 2,.....): **NIL**

Seat No. :

Student's Signature

- (2) Figures on right indicates full marks  
(3) Draw a labelled diagram wherever necessary.

1 Answer the following : 14

- (i) State the characteristics and location of cardiac muscle.
- (ii) Name the flexor muscles of an elbow joint.
- (iii) What are the receptor cells for hearing sense and where are they located ?
- (iv) What parts constitutes the brain stem ? Enlist important functional centres in this region.
- (v) Give the function of Leydig cells and sertoli cells.
- (vi) What is micturition ? Name the spinal centres for micturition.
- (vii) Where are parathyroid gland located ? Describe the role of hormones produced by the gland.

2 Explain/comment on any **three** of the following : 15

- (i) Carbohydrates is not digested in stomach.
- (ii) Intercoastal muscles and diaphragm plays an important role in respiration.
- (iii) Nerve impulse travels faster in myelinated nerve fibres.
- (iv) Ventricle is thicker walled than atrium.

- 3** Write an essay on : **10**  
“The process of Urine formation”
- 4** Attempt any **two** of the following : **16**
- (i) Small intestine is the major site for digestion of food and absorption of Nutrients. Explain.
  - (ii) Draw and explain the structure of skin and give its functions.
  - (iii) Describe the general structure of a long bone and classify bones on the basis of size and shape.
- 5** Write short notes on any **three** of the following : **15**
- (i) Negative feedback mechanism
  - (ii) Structure of Eye
  - (iii) Epithelial Tissue
  - (iv) Conducting system of Heart.
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