

[LB 0212]

AUGUST 2012

Sub. Code: 2101

B.Sc. NUCLEAR MEDICINE TECHNOLOGY

FIRST YEAR

PAPER I – HUMAN ANATOMY AND PHYSIOLOGY

Q.P. Code : 802101

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

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|---|---|----|----|
| 1. Define cell. Draw a diagram of cell structure and describe function and structure of cell. | 7 | 20 | 10 |
| 2. Describe in detail anatomy of pituitary gland, blood supply and functions. | 7 | 20 | 10 |
| 3. Describe in detail anatomy of pancreas, blood supply, enzymes secreted and functions. | 7 | 20 | 10 |

II. Write short notes on:

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|---|---|----|---|
| 1. Briefly describe types of epithelial tissue. | 4 | 10 | 5 |
| 2. Layers of the heart tissue. | 4 | 10 | 5 |
| 3. Causes of edema. | 4 | 10 | 5 |
| 4. Ventricle of brain. | 4 | 10 | 5 |
| 5. Muscles of respiration. | 4 | 10 | 5 |
| 6. Mechanism of swallowing. | 4 | 10 | 5 |
| 7. Functions of skin. | 4 | 10 | 5 |
| 8. Classify fractures and describe stages of healing. | 4 | 10 | 5 |

III. Short notes:

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|--|---|---|---|
| 1. List paired directional terms used in anatomy. | 2 | 4 | 3 |
| 2. Define neoplasm and briefly enumerate differences between benign and malignant tumours. | 2 | 4 | 3 |
| 3. Sensory receptors in skin. | 2 | 4 | 3 |
| 4. Structure of testes. | 2 | 4 | 3 |
| 5. Structure of atom. | 2 | 4 | 3 |
| 6. Modes of spread of tumours. | 2 | 4 | 3 |
| 7. Stroke volume. | 2 | 4 | 3 |
| 8. Factors affecting pulse rate. | 2 | 4 | 3 |
| 9. Extra ocular muscles of eye. | 2 | 4 | 3 |
| 10. Function of parathyroid glands. | 2 | 4 | 3 |
