

[LB 0212]

AUGUST 2012

Sub. Code: 1401

**DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY**

**FIRST YEAR**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

**RELEVANT TO RADIOLOGY**

*Q.P. Code : 841401*

**Time : Three hours**

**Maximum : 100 marks**

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

**I. Elaborate on:**

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

- |  |   |    |    |
|--|---|----|----|
| 1. What are Blood Groups and Write about Coagulation of Blood?                     | 7 | 20 | 10 |
| 2. What are the various parts of Respiratory System and Physiology of Respiration? | 7 | 20 | 10 |
| 3. Write Anatomy of Uterus and Ovaries.  | 7 | 20 | 10 |

**II. Write notes on:**

- |  |   |   |   |
|--|---|---|---|
| 1. Brain and its parts.                      | 4 | 9 | 5 |
| 2. Physiology of digestion in the stomach.   | 4 | 9 | 5 |
| 3. Structure and Functions of Heart.         | 4 | 9 | 5 |
| 4. Pathophysiology of Renal Diseases.        | 4 | 9 | 5 |
| 5. Hormones and Functions of Adrenal Gland.  | 4 | 9 | 5 |
| 6. External Carotid Artery and its Branches. | 4 | 9 | 5 |
| 7. Locations of Lymph Glands.                | 4 | 9 | 5 |
| 8. Anatomy and Parts of Shoulder Joint.      | 4 | 9 | 5 |
| 9. Structure and function of Human Cell.     | 4 | 9 | 5 |
| 10. Anatomy and functions of Ear.            | 4 | 9 | 5 |

**III. Short Answers on:**

- |                                   |   |   |   |
|-----------------------------------|---|---|---|
| 1. Define Physiology.             | 1 | 3 | 2 |
| 2. What are the Sinuses of Skull? | 1 | 3 | 2 |
| 3. Retroperitoneum.               | 1 | 3 | 2 |
| 4. Name the Salivary Glands?      | 1 | 3 | 2 |
| 5. Sagittal View.                 | 1 | 3 | 2 |
| 6. What is Proximal and Distal?   | 1 | 3 | 2 |
| 7. Brachial Artery.               | 1 | 3 | 2 |
| 8. What is Superior and Inferior? | 1 | 3 | 2 |
| 9. What are Tarsal Bones?         | 1 | 3 | 2 |
| 10. Lumbar Vertebrae.             | 1 | 3 | 2 |

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[LC 0212]

FEBRUARY 2013

Sub. Code: 1401

**DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY**

**FIRST YEAR**

**PAPER I – HUMAN ANATOMY AND PHYSIOLOGY**

**RELEVANT TO RADIOLOGY**

*Q.P. Code : 841401*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. The structure and functions of the Human Cell.
2. The endocrine glands – their location and functions in human body.
3. Parts of the Digestive system and the physiology of digestion.

**II. Write notes on:**

**( 10 x 5 = 50)**

1. Surface markings of lungs
2. Axillary group of lymph nodes
3. Neuron
4. Physiology of muscle contraction
5. Secretions of pancreas and their functions
6. Blood supply of heart
7. Bronchopulmonary segments
8. Functions of liver
9. Erythrocyte
10. Thymus

**III. Short Answers on:**

**( 10 x 2 = 20)**

1. Pronation and supination
2. Branches from arch of aorta
3. Divisions of pharynx
4. Parts of a long bone
5. Layers of cornea
6. Blood supply of cerebellum
7. Lobes of liver
8. Number of spinal nerves
9. Normal blood pressure
10. Functions of saliva

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[LD 0212]

AUGUST 2013

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**DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY  
FIRST YEAR  
PAPER I – HUMAN ANATOMY & PHYSIOLOGY, RELEVANT TO  
RADIOLOGY**

*Q.P. Code : 841401*

**Time : Three hours**

**Maximum : 100 marks**

**Answer All questions.**

**I. Elaborate on :**

**(3x10 = 30)**

1. Describe anatomy of heart and systematic circulation
2. Describe various parts of female reproductive system and functions of ovaries?
3. Name three Meningeal layers and state their functions.

**II. Write short notes on:**

**( 10X5= 50)**

1. Draw a labeled diagram of typical synovial joint.
2. Describe brief about paranasal air sinuses.
3. Describe layers and functions of skin.
4. Describe anatomy of hip joint
5. Name the bones of skull.
6. List important functions of saliva.
7. Describe the structure of Nephron
8. What are the parts of brain?
9. Describe brief the structure of eye.
10. Describe about neurotransmitters

**III. Short answers on:**

**(10X2=20)**

1. Branches of Abdominal aorta
2. What is mid Sagittal plane?
3. What is Proximal and Distal?
4. Differences between right lung and left lung?
5. Name the Ossicles of middle ear.
6. Define peristalsis.
7. What are the parts of brain stem?
8. What is medial and lateral?
9. List four important roles of muscles in the body.
10. What are the functions of hair?

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