

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0922]**

**SEPTEMBER 2022**

**Sub. Code: 1421**

**(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)**

**DIPLOMA IN RADIOGRAPHY AND IMAGING TECHNOLOGY**

**FIRST YEAR (Regulation from 2018-2019)**

**PAPER I – HUMAN ANATOMY & PHYSIOLOGY RELEVANT TO  
RADIOLOGY**

***Q. P. Code: 841421***

**Time: Three hours**

**Maximum : 100 Marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify Joints. Explain the anatomy of Shoulder joint with a suitable diagram.
2. Write in detail about the composition and functions of blood.
3. Explain the structure of a Nephron. Describe the Physiology of Urine formation.

**II. Write notes on:**

**(10×5=50)**

1. Functions of Plasma proteins.
2. Describe the waves and intervals in ECG.
3. Explain the external features of Lungs.
4. Cardinal Anatomical Planes.
5. Parts of Digestive System.
6. Parts of Male reproductive system.
7. Uterine changes in Menstrual cycle.
8. Mention any 4 endocrine glands and write their functions.
9. Physiology of Skeletal Muscle Contraction.
10. Functions of Cerebellum.

**III. Short answers on:**

**(10×2=20)**

1. Structure and functions of Mitochondria.
2. Give 4 examples of long bones.
3. Name the Lung volumes and Capacities.
4. Parts of eyeball.
5. Types of Epithelium.
6. Functions of Progesterone.
7. Mention the chambers of the heart.
8. Sesamoid bone.
9. Flexion and Extension.
10. Parts of respiratory tract.

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