

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 1941

**B.Sc. RADIOTHERAPY TECHNOLOGY  
FIRST YEAR (Regulation 2018-2019)  
PAPER I – HUMAN ANATOMY AND PHYSIOLOGY  
Q. P. Code: 801941**

**Time: Three hours**

**Maximum : 100 Marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify Joints. Describe the different types of synovial joints with suitable examples.
2. Describe the Anatomy of Heart with a neat diagram.
3. Write in detail about the structure of Kidney. Add a note on mechanism of urine formation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. CO<sub>2</sub> transport.
2. Temporary methods of contraception.
3. Describe the structure of a long bone.
4. External features of the right lung.
5. Exocrine part of pancreas.
6. Functions of Thyroid hormones.
7. Circulation of CSF and its functions.
8. Anatomy of skin.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define coronal plane.
2. Name the openings of the diaphragm with their corresponding vertebral levels.
3. What is mitosis?
4. Name the parts of the small intestine.
5. Name the coverings of the brain.
6. Reflex arc.
7. What is Tidal volume? Give its normal value.
8. Name two common diseases affecting bones.
9. List the granulocytes.
10. Name the ear ossicles.

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