

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

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 2401**

**(OCTOBER 2020 EXAM SESSION)**

**M.Sc. RADIOTHERAPY TECHNOLOGY**

**FIRST YEAR (From 2019-2020 onwards)**

**PAPER I – HUMAN APPLIED AND IMAGING ANATOMY, PHYSIOLOGY,  
PATHOLOGY & TERMINOLOGY**

***Q.P. Code : 282401***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Explain the anatomy of the Respiratory system with diagrams.
2. Describe the Urinary system with diagrams. Explain the process involved in the formation of urine.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Write a note on spread of tumours.
2. Types of necrosis.
3. Chemical carcinogens.
4. Regulation of Blood Pressure.
5. Digestion of Fat.
6. Functions of pancreas.
7. Functions of mitochondria.
8. Structure of ova.
9. Production and circulation of cerebrospinal fluid.
10. Parts and functions of small intestine.

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

[AHS 0222]

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 2401**

**M.Sc. RADIOTHERAPY TECHNOLOGY  
FIRST YEAR**

**(Candidates admitted from 2019-2020 onwards – Paper I)**

**(Candidates admitted from 2020-2021 onwards – Paper II)**

**PAPER I & II – HUMAN APPLIED AND IMAGING ANATOMY,  
PHYSIOLOGY, PATHOLOGY & TERMINOLOGY**

***Q.P. Code : 282401***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on: (2 x 20 = 40)**

1. Describe the Female Reproductive system, location and its functions.
2. Describe the phases of digestion. Explain the major hormones that regulate the digestive system.

**II. Write Short Notes on: (10x6 = 60)**

1. Differentiate between acute and chronic inflammation .
2. Apoptosis.
3. Pathogenesis of septic shock
4. Structure of Eyeball.
5. Blood supply of the Heart.
6. Types of muscles.
7. Process of absorption in the large intestine.
8. Reflex arc.
9. Types of hypoxia with suitable examples.
10. Functions and location of pituitary gland.

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