

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

[AHS 1022]

**OCTOBER 2022**

**Sub. Code: 4013**

**M.Sc. MEDICAL PHYSICS  
FIRST YEAR**

**(Candidates admitted from 2010-2011 onwards – Paper – III)**

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

**PAPER III & IV- ANATOMY, PHYSIOLOGY AND PATHOLOGY**

**Q.P. Code : 284013**

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer ALL Questions**

**I. Elaborate notes on:**

**(2x20=40)**

1. Describe in detail the anatomy and physiology of excretory system.
2. Explain in detail about classification of Tumors, mode of spread of Tumors. Add a note on Carcinogens

**II. Write Short Notes on:**

**(10x6=60)**

1. Structure and functions of a cell.
2. Actions of Insulin.
3. Functions of Autonomic Nervous system.
4. Chemical mediators of Inflammation.
5. Properties of Heart muscle.
6. Necrosis and its types.
7. Oxygen Transport.
8. Surface markers of thorax and abdomen.
9. Write a note on Radiation injury.
10. Name the Bones of upper limb and write about its ossification centre.

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