

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

[AHS 0222]

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

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

Answer ALL Questions

Maximum: 100 Marks

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

1. Describe about lung and its function. Write in detail about the physiology of respiration.
2. Immediate and late effects of whole-body exposure to Ionizing radiation.

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

1. Functions of liver.
2. Acute and chronic inflammation.
3. Physiology of smell sensation.
4. Basics of ABO blood grouping and typing.
5. Structure of bone and cartilage.
6. Kidney and its functions.
7. Surface anatomy of the abdomen and name the organs seen in its quadrants.
8. Wound healing.
9. Define dysplasia, metaplasia and Neoplasia with examples.
10. Structure and actions of insulin.
