

[LD 1013]

OCTOBER 2013

Sub. Code: 4013

M.Sc (MEDICAL PHYSICS) DEGREE EXAMINATION
(Revised Regulations for Candidates admitted from 2010-2011)
FIRST YEAR
PAPER III – ANATOMY, PHYSIOLOGY AND PATHOLOGY

Q.P. Code : 284013

Time : 3 hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on :

(2X20=40)

1. Write down divisions, sub-divisions, boundaries and contents of the Mediastinum. Explain various structures seen in the anteroposterior, lateral and oblique radiographs of the thorax.
2. Define acute inflammation. Give a brief outline on various chemical mediators and their role in acute inflammation.

II. Write notes on :

(10X6=60)

1. Surface anatomy of the abdomen and name the organs seen in its different quadrants.
2. Functions of the Liver.
3. Physiology of respiration.
4. Define Neoplasm. Write about the basic differences between Benign and Malignant Neoplasms.
5. Define mutation. Name the different types of gene mutations.
6. Immediate effects of whole-body ionizing radiation.
7. Draw and name the different parts of the Physiologic (functional) nephron.
8. Varieties of cartilage.
9. Basics of ABO Blood Grouping.
10. Types of Lymphocytes and its function.
