

[LJ 1016]

OCTOBER 2016

Sub. Code: 4013

**M.Sc. MEDICAL PHYSICS EXAMS  
FIRST YEAR  
PAPER III – ANATOMY, PHYSIOLOGY AND PATHOLOGY**

*Q.P. Code : 284013*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Mechanism of carcinogenesis. Explain the modes of spread of malignant tumour.
2. Describe anatomy and functions of stomach. Add a note on composition and significance of gastric juice.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Thyroxine and its functions.
2. Structure of spinal cord.
3. Blood coagulation mechanism.
4. Differences between osteoclast and osteoblast.
5. Micturition reflex.
6. Male reproductive organs.
7. Chemical mechanism of inflammation.
8. Diaphragm and its importance.
9. Radiographic anatomy.
10. Functions of cell nucleus.

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