

[LP 1019]

OCTOBER 2019

Sub. Code: 4032

**M.Sc. MEDICAL PHYSICS EXAMS
SECOND YEAR
PAPER II – CLINICAL RADIATION BIOLOGY**

Q.P. Code: 284032

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Time, Dose and Fractionation (TDF) in radiotherapy.
2. Staging and management of Cancer Lung.

II. Write notes on:

(10 x 6 = 60)

1. Direct and indirect action of ionizing radiation.
2. Cell survival curve.
3. Radioprotectors.
4. Linear Energy Transfer (LET) and Relative Biologic Effectiveness (RBE).
5. Hyperthermia.
6. Cell cycle.
7. Bergonie – Tribondeau law.
8. Ribosomes.
9. Acute Radiation Syndrome.
10. Radiation Carcinogenesis.
