M.Sc (MEDICAL PHYSICS) - DEGREE EXAMINATION SECOND YEAR CLINICAL RADIATION BIOLOGY

Q.P. Code: 284032

Time: 3 hours maximum: 100 marks

I. Elaborate on: (2X20=40)

1. Define Linear Quadratic Model. Write an essay on Models in Radiobiology.

2. Somatic effects of radiation. What are all the effects of chronic exposure to radiataion.

II. Write notes on: (10X6=60)

- 1. Time dose fractionation
- 2. NTCP
- 3. Diagnosis and Management of oesophageal cancers
- 4. Percentage labeled mitosis technique
- 5. Hyperthermia
- 6. Cell metabolism
- 7. Point Mutations
- 8. Cell survival curves
- 9. Target theory
- 10. Tissue tolerance dose
