

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

**[DM 0222]**

**FEBRUARY 2022**

**Sub.Code :1302**

**D.M. – MEDICAL ONCOLOGY**

**Paper II – GENERAL ONCOLOGY INCLUDING TUMOUR  
PATHOLOGY, RADIOLOGY AND NUCLEAR MEDICINE**

*Q.P. Code: 161302*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the types of ionizing radiation and their application in oncology and their side effects.
2. Discuss the etiopathogenesis of malignant bone tumors. Discuss the management of osteogenic sarcoma.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Thallium 201 imaging.
2. Fast neutron therapy.
3. Hydatiform mole.
4. K RAS mutation.
5. Spectral karyotype.
6. Proteomics in cancer detection.
7. Organ selective growth of metastasis.
8. Suicide gene therapy.
9. Immuno scintigraphy.
10. Cetuximab.

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