

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

**[DM 0223]**

**FEBRUARY 2023**

**Sub. Code :1301**

**D.M. – MEDICAL ONCOLOGY**

**PAPER I – BASIC SCIENCES (RADIATION PHYSICS TUMOUR BIOLOGY,  
BIOCHEMISTRY, BIOMETRY IMMUNOLOGY AND PHARMACOLOGY)**

*Q.P. Code: 161301*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe in detail about biomarker genetics and use of biomarkers in diagnosis, prognosis, predicting response to therapy and disease monitoring and risk assessment.
2. Cancer susceptibility syndromes.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Anti cancer drug induced Neuro toxicity.
2. Molecular events involved in metastasis.
3. BRAF-V600 E mutation.
4. MSI and its implications in cancer management.
5. Proteasome inhibitors in cancer
6. OVA1 and OVA2.
7. Familial hypercalciuric hypercalcemia.
8. FIGO staging of ovarian cancer.
9. Hyperthermic intraperitoneal chemotherapy.
10. PARP inhibitors.

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