

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

**[DM 0126]**

**JANUARY 2026**

**Sub. Code :1520**

**D.M. – ONCOPATHOLOGY**

**PAPER I – BASIC SCIENCES AND GENERAL SURGICAL PATHOLOGY  
(CELLULAR STRUCTURE AND ORGANIZATION, GENETICS,  
TUMOUR BIOLOGY, BIOCHEMISTRY, IMMUNOLOGY)**

*Q.P. Code: 161520*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Krebs cycle associated genetic syndromes.
2. Immune surveillance and cancer.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Stem cell-like properties of cancer.
2. Mismatch repair deficiency and its role in cancer immunotherapy.
3. Intraoperative evaluation of sentinel lymph node dissection.
4. Human papilloma virus associated cancer – prevention and early detection.
5. Genomic instability and cancer.
6. Approach to resection of ampullary / periampullary tumours.
7. Non coding RNAs and cancer.
8. Radiation and carcinogenesis.
9. Uses of biochemical markers in germ cell tumours.
10. Cytology based supernatant in precision oncology.

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