

**M.Ch. – SURGICAL ONCOLOGY**

**Paper I – BASIC SCIENCES AS APPLIED TO SURGICAL ONCOLOGY**

*Q.P. Code: 181801*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss about the role and mechanism of action and the role of poly ADP Ribose Polymerase (PARP) inhibitors in the management of breast and ovarian cancers.
2. Describe the Epithelial-to-Mesenchymal transition program in the regulation of invasion and metastasis.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Advances in molecular diagnostics in the management of Thyroid Cancers.
2. Role of extra-corporeal irradiation in the management of extremity Sarcomas.
3. Mechanism of carcinogenesis of Areca nut in oral cancers.
4. Describe the association between physical activity and cancers.
5. Association of tumor infiltrating lymphocytes and cancer.
6. Association of electronic nicotine delivery systems and cancer.
7. Classification of epidemiological study designs.
8. Mechanism of action of platinum analogues.
9. Role of aromatase inhibitors in breast cancer prevention.
10. Briefly enumerate two monoclonal antibodies that have been approved in solid tumors.

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