

QP Code:101511

Reg.No.:.....

M.Ch. (Surgical Oncology) Degree Examinations July 2019

Paper I – Basic Sciences

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essay:

(20)

1. Discuss the applications of molecular diagnostics in oncology.

Short essays:

(8x10=80)

2. Passenger and driver mutations.
3. Clinical application of various types of radiation. (Electrons, carbon ion, neutron, brachytherapy and Yttrium microspheres).
4. Interleukin 2 therapy for metastatic melanoma.
5. Clinical pharmacokinetics/pharmacodynamics of nitrosoureas and their therapeutic use.
6. Aromatase inhibitors
7. Effect of smoking on cancer recurrence/cancer treatment and toxicity and on risk of second primary cancer.
8. Analysis of phase 3 clinical trials.
9. Mechanism of photodynamic therapy cytotoxicity
