Rajiv Gandhi University of Health Sciences
M.Ch Degree Examination – JULY-2018

Time: Three Hours   Max. Marks: 100 Marks

SURGICAL ONCOLOGY- PAPER –I
QP Code: 9131

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (These questions carry 10 marks each)   **10 x 10 = 100 Marks**

1. Define senescence. Explain its role in prevention of cancer in vivo and activation of INK 4a/ARF locus.
2. Describe the various factors that are involved in resistance to anti angiogenic drugs. Write a note on Biomarkers for tumor angiogenesis and anti angiogenic therapy.
3. Describe the replication cycle and the mechanism of oncogenesis of retroviruses.
4. How does a cell repond to the damage caused by the ultraviolet light? What are the cancer risks associated with such damage?
5. What are the possible causes of tumor cell dissemination in laparoscopic surgery for cancer? Describe the intervention to minimize them.
6. Describe in detail the various ways of fractionation in Radiation treatment of cancer. Mention their advantages and disadvantages.
7. Write briefly on various active immunization approaches to cancer therapy.
8. Mention 10 important data sources for Health service research studies in cancer with examples. Briefly explain the advantages and limitation of each of these studies.
9. What are antifolates? Explain the mechanism of action, resistance, clinical pharmacology and the toxicity profile of them.
10. Describe the pharmacologic treatment for smoking cessation. Write briefly on a model Tobacco treatment Programme available at University of Texas.

* * * * *