

[LB 056]

AUGUST 2012

Sub. Code: 1801

M.Ch – SURGICAL ONCOLOGY

Paper – I BASIC SCIENCES AS APPLIED TO SURGICAL ONCOLOGY

Q.P. Code: 181801

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss the uses and advances in DNA microarray technology in cancer.	16	35	15
2. Discuss briefly about the hereditary predisposition to colorectal cancers and the impact of microsatellite instability (MSI).	16	35	15

II. Write notes on :

1. Elaborate on the association between VHL gene and Renal cell carcinoma.	4	10	7
2. Discuss the function and the clinical significance of Heat shock proteins.	4	10	7
3. Describe the pharmacokinetics of Capecitabine.	4	10	7
4. Elaborate on the role of tumor stroma interactions in tumor metastasis.	4	10	7
5. Discuss the biological basis of Fractionation in Radiotherapy.	4	10	7
6. Discuss the role of Adenomatosis polyposis coli (APC) gene in colorectal cancer.	4	10	7
7. Describe the statistical design of a Non inferiority trials.	4	10	7
8. Elaborate on the role of prophylactic thyroidectomy in medullary carcinoma thyroid.	4	10	7
9. Describe the mechanisms of cell cycle check points in genome maintenance.	4	10	7
10. Discuss the clinical significance of detection of circulating tumor cells in solid tumors.	4	10	7

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