

FEBRUARY – 2009

[KU 017]

Sub. Code: 1301

**D.M. DEGREE EXAMINATION**

**(Higher Specialities)**

**(Common to All Regulations)**

**Branch VII – Medical Oncology**

**Paper I– BASIC SCIENCES**

**(Radiation physics tumour biology, Biochemistry, Biometry,**

**Immunology & Pharmacology)**

*Q.P. Code: 161301*

**Time: Three hours Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**Draw suitable diagrams wherever necessary.**

**I. Essays: 2 x 20 = 40 Marks**

1. A 30 years old male has been diagnosed to have Hodgkin's Lymphoma stage II B. Discuss plan of investigations with rationale and briefly line of management.
2. Discuss briefly pharmacology of drugs used during the induction therapy of childhood acute lymphoblastic leukemia.

**II. Write short notes on: 10 X 6 = 60 Marks**

1. Newer Antiemetic drugs.
2. Advances in radiation therapy for thoracic cancer.
3. Survival plots.
4. Immunophenotyping for chronic lymphoproliferative disorders.
5. Biology of cancer cachexia.
6. Determination of Sample Size for a clinical trial.
7. K-ras mutations.
8. Venous thromboembolic complications of cancer.
9. PSA (Prostate Specific Antigen).
10. Molecular diagnosis of chimerism.

August - 2009

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**I. Essays:      2 x 20 = 40 Marks**

1. Describe the pathogenesis of tobacco induced cancers. Brief note on tobacco induced cancers.
2. Define angiogenesis, factors regulating angiogenesis and role of AntivegF in the management of lung cancer.

**II. Write short notes on:      10 X 6 = 60 Marks**

1. P53 gene.
2. HPV vaccines.
3. Apoptosis.
4. Dose intensity and dose density.
5. Image guided intervention in G.I. oncology.
6. Biomarkers in testicular tumor.
7. Bortezomib (Proteasome inhibitors).
8. I.M.R.T (Intensity Modulated Radiotherapy).
9. Tumor infiltrating lymphocytes.
10. Surveillance – Testicular tumor.

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