

April-2001

[KD 017]

Sub. Code : 1301

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch VII — Medical Oncology

(Revised Regulations)

Paper I — BASIC SCIENCES

(RADIATION PHYSICS, TUMOUR BIOLOGY,
BIOCHEMISTRY, BIOMETRY, IMMUNOLOGY AND
PHARMACOLOGY)

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the relationship between viruses and cancer. (25)
2. Write in detail immunophenotyping of acute leukemias. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Apoptosis.
 - (b) Cell cycle.
 - (c) Cellular Immunodeficiency
 - (d) Radiosensitiser.
 - (e) Intravesical chemotherapy.

November-2001

[KE 017]

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(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

Paper I — BASIC SCIENCES, (RADIATION PHYSICS,
TUMOUR BIOLOGY, BIOCHEMISTRY, BIOMETRY,
IMMUNOLOGY AND PHARMACOLOGY)

Time : Three hours

Maximum 100 marks

Answer ALL questions.

1. Discuss role of dendritic cell based immunotherapy in the treatment of cancer. (25)
2. Write briefly on molecular biology of epithelial ovarian cancer. How this knowledge can be utilized to overcome the drug resistance? (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Paraneoplastic cerebellar ataxia
 - (b) Multidrug resistance modulation
 - (c) Positron Emission Tomography in non Hodgkins lymphoma
 - (d) Indications for radiation therapy in Wilms Tumour
 - (e) CNS Prophylaxis in small cell lung cancer.

March-2002

[KG 017]

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Paper I — BASIC SCIENCES

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BIOCHEMISTRY, BIOMETRY, IMMUNOLOGY AND
PHARMACOLOGY)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss role of genetic prognostic markers in the management of breast cancer. (25)
2. Describe briefly molecular biology of colon cancer and role of adjuvant chemotherapy in treatment of colorectal cancer. (25)
3. Short notes on : (5 × 10 = 50)
 - (a) Antifungal prophylaxis in patients on cancer chemotherapy
 - (b) Oxaloplatin
 - (c) Radiofrequency ablation of malignant liver tumours
 - (d) Molecular methods for HLA matching
 - (e) Skeletal targeted radiotherapy.

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BIOCHEMISTRY, BIOMETRY, IMMUNOLOGY AND
PHARMACOLOGY)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

A. Essay : (2 × 15 = 30)

(1) Describe briefly the mechanism of osteolytic bone lesions in multiple myeloma. (15)

(2) Discuss briefly the pathology and role of tumour markers in the management of Germ cell tumours of ovary. (15)

B. Short notes : (10 × 5 = 50)

- (1) Conformal Radiation Therapy
- (2) Hepatotoxic chemotherapy drugs
- (3) Hereditary cancer syndromes with reference to ovary
- (4) Biphenotypic leukemia
- (5) Liposomal Drug delivery
- (6) Telomerase
- (7) Radiofrequency ablation of malignant liver tumours
- (8) Cyclosporin : Mechanism and drug interactions
- (9) Infections as etiological factor for childhood acute lymphoblastic leukemia
- (10) Paraneoplastic syndromes involving nervous system.

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PHARMACOLOGY)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
 forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Discuss the role of cytogenetics in the
management of acute leukemias.

(2) Discuss role of monoclonal antibodies in the
treatment of solid tumours.

II. Short notes on : (10 × 5 = 50)

- (a) Stereotactic Radiosurgery.
- (b) ATRA syndrome.
- (c) Molecular biology of colon cancer.
- (d) Immunohistochemistry in the diagnosis of
unknown primary.
- (e) Role of radiation in the treatment of
Hodgkin's disease.
- (f) Diagnosis of fungal infections.
- (g) Letrozole.
- (h) Etiology of impaired renal functions in bone
marrow transplant recipients.
- (i) Virus in the etiology of cancer.
- (j) Response criteria for evaluation of
Chemotherapy Treatment.