

[KM 018]

Sub. Code : 1302

II. Short notes on :

(10 × 5 = 50)

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

Paper II — GENERAL ONCOLOGY, TUMOUR
PATHOLOGY, RADIOLOGY AND NUCLEAR
MEDICINE

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(2 × 15 = 30)

(1) Discuss the various oncological emergencies that are encountered in practice in brief and genesis and management of tumour lysis syndrome in details.

(2) Discuss the various strategies for prevention of cancer.

(a) Apoptosis in cancer.

(b) PET scan in solid tumours.

(c) Role of immuno histo chemistry in diagnosis.

(d) Oncogenes.

(e) Aietary carcinogens and anticarcinogens.

(f) Chromosomal abnormalities in cancer.

(g) Phase III clinical trials.

(h) Hormonal therapy of prostate cancer.

(i) Anthracycline induced cardiotoxicity.

(j) Cytokines.

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PATHOLOGY, RADIOLOGY AND NUCLEAR
MEDICINE

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 questions : (2 × 15 = 30)

(1) Discuss the combined modality approach in the treatment of Non-small cell lung cancer.

(2) Discuss briefly methods of diagnosis of early cancer. Suggest screening programme applicable to cancer in women.

II. Short notes : (10 × 5 = 50)

- (a) Immuno scintigraphy.
- (b) Differential diagnosis of massive splenomegaly.
- (c) Extra pulmonary small cell carcinomas.
- (d) Carcinoid syndrome.
- (e) Lymphocyte predominant Hodgkin's-disease.
- (f) Non-germ cell neoplasms of testis.
- (g) Polyposis syndromes.
- (h) Cardiac complications of treatment of cancer
- (i) Role of radiology in gastro intestinal cancers.
- (j) Genetic counselling in Breast Cancer.

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NUCLEAR MEDICINE

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

(1) Discuss the histomorphogenetic basis for the recent changes in the classification of Hodgkin's lymphoma and its bearing on treatment. (20)

(2) Discuss the mammographic appearances of neoplasms of the breast and suggest an evaluation algorithm for non-palpable breast lesions. (15)

(3) Discuss the pathogenesis, diagnosis and management principles of skeletal metastases. (15)

II. Short notes :

(6 × 5 = 30)

(a) Histology of Gastro Intestinal Stromal Tumours (GIST).

(b) Myeloma associated amyloidosis.

(c) ¹³¹I therapy for thyroid cancer.

(d) Methodology of meta-analysis.

(e) 'Generic' and 'Specific' pathologic grading systems for malignancies.

(f) Lambert-Eaton myaesthenic syndrome.

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Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

1. Discuss the WHO classification of Non-Hodgkin's lymphoma. (20)
2. Discuss the PET-FDG Imaging. How is it useful in evaluation of Lung cancer? (15)
3. Discuss the pathogenesis, diagnosis, prevention and management of Anthracycline cardiotoxicity. (15)

II. Short notes :

(6 × 5 = 30)

1. Histology of NeuroEndocrine Tumors of the Gut.
2. Richter's syndrome.
3. Radio immuno conjugates in cancer therapy.
4. Bias in clinical trials.
5. Rapid-Tumor - clearance syndrome.
6. Opsoclonus – myoclonus.

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Paper II — GENERAL ONCOLOGY, TUMOUR
PATHOLOGY, RADIOLOGY AND NUCLEAR
MEDICINE

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Illustrate your answers with appropriate diagrams
and tables.

I. Essay :

(1) What is primary and secondary prophylaxis?

Illustrate your answer with a suitable example. (20)

(2) Enumerate the causes and discuss the
management of a patient with malignant obstructive
jaundice. (15)

(3) Attempt a histological classification of
primary exocrine pancreatic tumors. (15)

II. Short notes :

(6 × 5 = 30)

(a) Primary effusion lymphoma.

(b) Fulvestrant.

(c) Endoscopic sonography.

(d) *Helicobacter pylori*.

(e) Human papilloma virus.

(f) Atypical glandular hyperplasia.

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D.M. DEGREE EXAMINATION.

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Branch VII — Medical Oncology

**Paper II — GENERAL ONCOLOGY, TUMOUR
PATHOLOGY, RADIOLOGY AND NUCLEAR
MEDICINE**

Q.P. Code : 161302

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay :

1. Discuss the pathology, staging and treatment options for cutaneous T. Cell Lymphoma. (20)
2. Attempt a histological classification of epithelial ovarian tumours and Discuss the treatment options for primary and locally recurrent tumors. (20)

II. Short notes :

(10 × 6 = 60)

1. Chordoma.
2. Radiofrequency Ablation.
3. Hairy Cell Leukemia.
4. Epstein – Barr Virus.
5. Medullary Carcinoma Thyroid.
6. Clear Cell Sarcoma.
7. POEM'S syndrome.
8. Ethical Committee in Clinical Research.
9. Paraneoplastic Syndrome.
10. Gompertzian Curve.

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Branch VII – Medical Oncology

**Paper II– GENERAL ONCOLOGY, TUMOUR PATHOLOGY,
RADIOLOGY AND NUCLEAR MEDICINE**

Q.P. Code: 161302

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Attempt a histological classification of germ cell tumours of the testes and discuss the treatment options for a young unmarried adult with a testicular tumour and secondary metastasis in the lung.
2. Discuss the diagnosis, management and follow up of patients with acute promyelocytic leukemia and comment on the salvage options of relapsed disease.

II. Write short notes on:

10 X 6 = 60 Marks

1. Merkel cell tumour.
 2. Pontine glioma.
 3. Selective Hepatic artery embolisation.
 4. Total androgen blockade.
 5. Neoplastic pemphigus.
 6. Mantle zone lymphoma.
 7. Pseudomyxoma peritonii.
 8. Nilotinib.
 9. Carcinoid syndrome.
 10. Ritchers syndrome.
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