

## (Tata Memorial Centre) Dr.Ernest Borges Marg, Parel Mumbai – 400 012

# Theory Examination - DM Medical Oncology May - June 2014 Paper I

Basic Sciences, Cancer Biology, Tumour Immunology, Cancer Aetiology, Pharmacology, Radiation Biology, Tumour Pathology

- 1. Cell cycle check points
- 2. Next generation sequencing
- 3. Epigenetics in cancer
- 4. Targeting metabolism in cancer
- 5. Immune surveillance in cancer:
- 6. Rationale of concurrent RT+CT in HNSCC
- 7. Tamoxifen resistance: diagnosis and treatment
- 8. Pathogenesis of epithelial cervical cancer
- 9. Risk factors for breast and ovarian cancers
- 10. Cytogenetics in acute myeloid leukemia
- 11. Knudson's two-hit theory
- 12. Apoptosis



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# Theory Examination – DM Medical Oncology May – June 2014 Paper II

Principles of Medical Oncology, Management

- 1. Principles and practice of high-dose methotrexate
- 2. Discuss cancer cachexia
- 3. Discuss management of a 45-yr old woman with tense ascites
- 4. Discuss management of Wilm'stumour
- 5. Adjuvant and neo-adjuvant therapy for pancreatic cancer
- 6. Role of chemotherapy for urinary bladder cancer
- 7. Approach to a case of metastatic gastroentero-pancreatic (GEP) neuroendocrine tumour
- 8. Immunotherapy for advanced malignant melanoma
- 9. Propose a design of a clinical trial for treatment of neutropenia following adjuvant chemotherapy for early breast cancer
- 10. Differential diagnosis of a retroperitoneal mass in a 28-yr old man
- 11. Targeted therapy in advanced HNSCC
- 12. Metronomic therapy in solid tumours



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### Haematological Malignancies

- 1. Monoclonal antibodies in chronic lymphocytic leukaemia
- 2. Discuss diagnosis and management of peripheral T cell lymphoma
- 3. Infections as aetiology in lymphomas
- 4. Importance of marrow microenvironment in multiple myeloma
- 5. Discuss management of acute promyelocyticleukaemia
- 6. Monitoring response in chronic phase-chronic myeloid leukaemia
- 7. Classify antifungal agents and their role in febrile neutropenia
- 8. Role of allogeneic stem cell transplantation in haematological malignancies
- 9. Evolution of treatment of acute lymphoblastic leukaemia
- 10. Myelofibrosis: diagnosis and management
- 11. Diagnosis and management of CMV infection in haematological malignancies
- 12. Treatment of primary CNS lymphoma in a 65-yr old man



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# Theory Examination - DM Medical Oncology May - June 2014 Paper IV

Cancer Epidemiology, Prevention, Pscycho-oncology, Rehabilitation, Societal Oncology

- 1. Epidemiology of breast and cervical cancer in India
- 2. Landmark analysis
- 3. Concept of hospice and its practice in India
- 4. Psychological issues in hereditary cancers
- 5. Functions/working of a Regional cancer centre in India
- 6. Follow-up of a child with ALL who completed treatment successfully
- 7. Survival analysis
- 8. Obesity and cancer
- 9. Lung cancer screening
- 10. Occupational cancers
- 11. Second malignancies
- 12. Role of a medical oncologist beyond patient care