

**MEDICAL ONCOLOGY**

PAPER-III

MEDONCO/D/18/17/III

Time: 3 hours  
Max. Marks:100

**Important Instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

**Write short notes on:**

1. a) Enumerate the smoking attributable cancers and the various carcinogens that have been implicated. 2+3+5  
b) What is field cancerization?  
c) Steps involved in tobacco de-addiction.
2. a) Enumerate the differences between hospital based and population based cancer registry. 5+5  
b) Write briefly the epidemiology of childhood cancer in India.
3. a) Enumerate the neuromuscular complications of cancer and cancer treatment. 5+5  
b) Write a neuropathy assessment algorithm which can guide treatment.
4. a) Diagrammatically represent estrogen receptor and its downstream pathway. 5+5  
b) Write briefly about selective estrogen receptor modulator as a risk reducing agent for breast cancer prevention with evidence.
5. a) What are the objectives of phase 1 clinical trial? 2+5+3  
b) Outline a design of a phase 1 clinical trial.  
c) What are the limitations of using traditional designs for evaluating tumour vaccines or molecularly targeted therapy?
6. a) Enumerate the various performance status scale tools used in Oncology. 2+4+4  
b) Write briefly on any one tool used with a special mention on its limitations.  
c) Write briefly the prognostic score used in Hodgkin's Lymphoma.

P.T.O.

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7. A 30-year-old female diagnosed as acute myeloid leukemia underwent Allogenic bone marrow transplant with Busulfan and Cyclophosphamide as conditioning regimen. She developed Jaundice on day +12. 3+3+4  
a) Write differential diagnosis.  
b) What are the risk factors for Veno-occlusive disease (VOD)?  
c) Outline the treatment of VOD in this patient.
8. a) Enumerate the genes involved in hereditary ovarian cancer. 3+3+4  
b) Write briefly the Amsterdam criteria for clinical diagnosis of Lynch Syndrome.  
c) Role of immunotherapy in patients with MSI- H tumours.
9. a) What are the goals of cancer survivorship health care? 3+4+3  
b) Enumerate the various late effects resulting from use of chemotherapy.  
c) List the secondary malignant neoplasm seen in survivors.
10. a) Describe the common pain syndromes. 2+3+5  
b) Diagrammatically represent WHO pain ladder.  
c) Write a prescription for a patient with pancreatic cancer presenting with severe backache.

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