

MEDICAL ONCOLOGY

PAPER-II

MEDONCO/D/18/17/II

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 10-year-old boy is diagnosed to have embryonal sarcoma of the left maxillary region with intracranial extension. There is no evidence of distant metastasis. 3+3+4
 - a) Enumerate the metastatic work-up for this child.
 - b) How will you risk stratify?
 - c) Outline the treatment.
2. 3+3+4
 - a) Outline the treatment protocol for a newly diagnosed high risk acute myeloid leukemia (AML).
 - b) Enumerate the molecular abnormality seen in AML.
 - c) Write briefly about FLT-3 directed therapy.
3. 4+6
 - a) Staging and risk assessment of malignant germ cell tumour testis.
 - b) Treatment options for stage I NSGCT.
4. A 50-year-old male diagnosed as carcinoma ascending colon underwent Right Hemicolectomy. Post-op HPE revealed adenocarcinoma with pT4 N0 M0? 4+6
 - a) What are the indications of adjuvant chemotherapy in stage II colorectal cancer patient?
 - b) Describe the treatment of the above patient. Provide evidence for chemotherapy regimen and its duration.
5. 3+3+4
 - a) Risk factors associated with pancreatic cancer.
 - b) What is borderline resectability in pancreatic cancer?
 - c) Outline the treatment of a borderline resectable pancreatic cancer.
6. 5+5
 - a) Mechanisms of primary and secondary Imatinib resistance in chronic myeloid Leukemia.
 - b) How will you manage a CML patient with T315I mutation? P.T.O.

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7. a) Outline the staging of Small Cell Lung Cancer (SCLC). 2+4+4
b) List the staging investigations in a patient with SCLC.
c) Role of prophylactic cranial irradiation in SCLC.
8. a) Write an algorithm for the treatment of metastatic breast cancer (MBC). 4+6
b) Describe HER2/neu targeted therapy in MBC with appropriate evidence.
9. a) Indications of PET scan in neuroendocrine tumour. 3+4+3
b) What is PRRT? Describe the indication and principles of PRRT.
c) Treatment of well differentiated neuroendocrine tumour with Ki67 20%.
10. a) Write an algorithm for arriving at a diagnosis of chronic lymphoproliferative disorder (CLPD) subtype using immunohistochemistry. 4+6
b) Outline the treatment of stage IV newly diagnosed grade 2 follicular lymphoma.
