

MEDICAL ONCOLOGY

PAPER – II

MEDONCO/J/17/17/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 70 year old male has been diagnosed to have pancytopenia. 3+3+4
 - a) What is the differential diagnosis?
 - b) Mention briefly mechanism of hypomethylating agents.
 - c) Dose and toxicities of decitabine and Azacytidine.

2. 4+2+4
 - a) Incidence, risk factors and causative factors for head and neck cancer.
 - b) Briefly mention evidence for HPV in some sub-sites of head and neck cancer.
 - c) Outline treatment for a 70 year old male with recurrent tongue cancer.

3. 3+7
 - a) Mention important causes of hyponatremia in a 75 year old woman.
 - b) Outline diagnostic workup with rationale and possible therapeutic strategies.

4. 7+3
 - a) Indications, methods, efficacy and toxicity of total parental nutrition (TPN) in cancer patients.
 - b) How will you assess need for nutritional support in children with leukemia?

5. A 61-year-old male has been diagnosed to have suprascapular soft tissue mass with lytic lesions over D4 and D5 spine. 4+4+2
 - a) Briefly mention differential diagnosis and outline diagnostic work up.
 - b) Briefly mention pathology of soft tissue sarcomas and immunohistochemistry markers used to arrive at the diagnosis.
 - c) List molecular abnormalities for 3 soft tissue sarcomas.

P.T.O.

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6. A 3 year old male child has been diagnosed to have retinoblastoma of right eye: 5+5
a) Incidence, burden and genetics of retinoblastoma.
b) Plan complete evaluation and treatment for this child with bone marrow metastasis.
7. A 25-year-old recently married lady has presented with bleeding per vaginum and bilateral pulmonary metastasis. 5+5
a) Diagnostic work up and WHO score for gestational trophoblastic disease (GTD).
b) How will you treat patient with high risk score? Mention key toxicities of each drug in EMACO regimen.
8. A 50-year-old male has been diagnosed to have renal lump. 5+5
a) Various radiological investigations with reasoning for evaluation.
b) Briefly compare similarities and differences between sunitinib and pazopanib in treatment of metastatic renal cell carcinoma.
9. a) Causes and mechanism of renal failure in multiple myeloma. 4+4+2
b) Compare similarities and differences between daratumomab and elotuzumab in the treatment of relapsed/refractory myeloma.
c) Outline treatment for myeloma in a 70-year-old male with renal failure.
10. Primary CNS lymphoma: 1+2+3+3+1
a) Incidence.
b) Key clinical features/presentation.
c) Investigations & interpretation.
d) Management algorithm.
e) Prognostic factors.
