

MEDICAL ONCOLOGY PAPER-I

MED.ONCO/D/14/17/I

2+8

3+7

3+7

2+3+5

2+2+3+3

3+7

5+5

4+6

3+3+4

: 3 hours Time 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.
- 1. Enumerate immunosuppressive agents used for prophylaxis of acute graft versus host disease. Compare pharmacology, mechanism of action and toxicity of cyclosporine, tacrolimus and mycophenolate.
- 2. Name various techniques used for assessment of minimal residual disease (MRD) in leukemia. How this information can be used in the treatment of children with acute lymphoblastic leukemia?
- 3. A 65 year old male has been diagnosed to have metastatic liver cancer with unknown primary. Discuss the various immunohistochemistry stains (IHC) with rationale that can be used to find out possible primary.
- 4. Name HPV (Human Papilloma Virus) associated malignancies. Mention characteristics of HPV positive head and neck cancer. Briefly discuss role of HPV vaccine in prevention of cervical cancer.
- 5. Name anti-angiogenic agents and describe mechanism of their action, toxicity and clinical usefulness in colon cancer.
- 6. List various biochemical markers for testicular germ cell tumors. Briefly discuss their interpretation and value in treatment.
- 7. List various biosensitizers and bioprotectors used in radiotherapy. Discuss critically their impact on treatment outcome.
- 8. What is 'Land mark Analysis'? How will you calculate 'sample size' to study impact of a new drug in advanced Lung cancer?
- 9. Discuss CARs (Chimeric Antigenic Receptors) and their value in treatment of acute lymphoblastic (ALL) and Chronic Lymphocytic Leukemias (CLL).
- 10. Discuss the principles of PET scan. Discuss its impact in the management of aggressive non Hodgkin's Lymphoma (NHL).
