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MEDICAL ONCOLOGY

PAPER - I

Time : 3 hours MED.ONCO./D/17/17/I

Max. Marks : 100

DECEMBER 2017

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:

b.	Enumerate breakthrough hallmarks of cancer List of tumours and indications where anti-angiogenic approach has shown positive results List three anti-angiogenic agents in clinical practice and their side effects.	3+3+4
b.	What is minimal residual disease (MRD) with respect to acute lymphoblastic leukemia? Enumerate methods of MRD detection and their advantages and disadvantages. How is MRD detection different in B- ALL Vs T-ALL?	3+5+2
b.	Enumerate the steps in performing Polymerase Chain Reaction (PCR). Name two methods of performing real time PCR. Mention three applications of PCR in oncology.	5+2+3
b.	Mechanism of action of cisplatin. Mechanism and markers of platinum resistance in various cancers. Pharmacogenomics of cisplatin induced ototoxicity.	2+4+4
b.	Principles of extra corporeal radiotherapy (ECRT) Mention specific condition where ECRT may be used. What are the problems associated with ECRT?	4+3+3
b.	What are chimeric Antigen Receptor (CAR)-T cells? How are CAR-T cells different from Blinatumomab with respect to use in acute lymphoblastic leukemia (ALL)? Beside ALL, name two other conditions where CAR-T cells are being used.	4+4+2

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7.	a. What is Hedgehog pathway?b. Name the cancers where this pathway is relevant.c. Utility of Hedgehog pathway inhibitors.	4+2+4
8.	a. Mechanism of action and method of administration trabectedin.b. Side effects of trabectedinc. Therapeutic uses of trabectedin	of 4+3+3
9.	a. What are end points for a Trial pertaining to new therapies in palliative care setting and why?b. What is Basket Trial? Explain with example.	ver 5+5
10.	a. Explain next generation and whole geno sequencing.b. Explain with an example how the above may be use in oncologic therapeutics.	

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