SURGICAL ONCOLOGY
PAPER-I

SURGONCO/D/18/47/I

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) What do you understand with Evidence based Medicine?   4+6
    b) Draw the Pyramid of levels of Evidence and explain the salient points of each level of evidence in Medicine.

2. a) Define Pharmacokinetics and Pharmacodynamics of anti-cancer drugs.   5+5
    b) Genotype guided cancer chemotherapy with examples.

3. a) What is the effect of radiotherapy on normal tissues and long term effects and squealae?   5+5
    b) What do you understand by Radiation Sensitizer? Illustrate with an example?

4. a) What is cancer screening?   2+3+5
    b) Define lead time bias, length bias and over diagnosis.
    c) Mention cancer screening guidelines for normal risk asymptomatic subject for four cancers.

5. a) HPV and cancer.   5+5
    b) HPV vaccination.

6. a) Pros and cons of Minimally Invasive Surgery in surgical oncology.   6+4
    b) Clinical trials related to Minimally Invasive Surgery in colorectal cancers.

7. a) Tumour heterogeneity.   5+5
    b) Topo-isomerases.

8. a) Margin assessment methods in breast conservation surgery.   5+5
    b) Rationale of lymphadenectomy in solid tumor surgery.

9. a) What do you understand by the diagnostic method of FISH?   5+5
    b) Explain two tumours in which FISH is used and the implications of the results of the same.

10. a) Represent schematically the Adenoma Carcinoma Sequence (ACS).   4+6
    b) Elaborate the role of K-ras and p53 in ACS.

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