Write short notes on:

1. a) What are Phase I, II, III trials? b) What is the power of study? c) How would you determine the sample size? 5+2+3

2. a) Pathway of circulation of the cerebrospinal fluid. b) Enumerate clinical situations where CSF pathway may need to be addressed. c) Enumerate ways to manage CSF spread. 4+3+3

3. Enumerate the pathologic subtypes as per WHO classification of lung cancers, briefly describing their salient points. 10

4. a) Rationale, advantages and disadvantages of neo-adjuvant chemotherapy. b) Current status of neo-adjuvant chemotherapy in head and neck carcinoma. 6+4

5. a) What is cancer screening? b) What are the goals of cancer screening? c) What sites are suitable for cancer screening and why? 3+2+5

6. Stage-wise management of unilateral and bilateral retinoblastoma. 10

7. Define five levels of evidence with one example for each level that is being used in clinical practice. 2+2+2+2+2

8. a) What is TNM staging system? b) Why is it used? c) Give TNM staging of lung cancers. 2+2+6

9. a) Define surveillance. b) Enumerate the sites and stage where surveillance is an option along with a brief description of how it is recommended to be carried out in cancer patients. 2+8

10. a) What is image guided Radiotherapy? b) What are the possible ways of doing image guidance currently? 3+7

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