

21Z002C8L

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Sl. No.

**M.Sc. II Semester Degree Examination, Sept./Oct. - 2024**

**ZOOLOGY**

**DSC 8 : Cancer and Radiation Biology**

**(NEP)**

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** of the following questions with question **No.1 compulsory**, each question carries **equal** marks.

1. Explain the etiology of cancer with a note on stages of cancer and risk factors. **14**
2. Describe the role of T-regulatory cells in immune invasion. **14**
3. Explain the mechanism of oncogene activation with a brief note on Phytotherapy for cancer. **14**
4. Give an overview of current treatment regimes against cancer. **14**
5. Write a note on principles of radiation dosimetry and its effects. **14**
6. Write a note on the following :
  - (a) Immune-surveillance **5**
  - (b) Tumor suppressor genes **5**
  - (c) Cancer biomarkers **4**
7. Write a note on the following :
  - (a) Anti cancer drugs **5**
  - (b) Relative biological effectiveness **5**
  - (c) Radiation protectors **4**
8. Write a note on the following :
  - (a) Oncogenes **5**
  - (b) Chemotherapy **5**
  - (c) Linear energy transfer **4**

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