



**M.Sc. II Semester (CBCS) Degree Examination,
September/October - 2022**

ZOOLOGY

21ZOO2C8L : Cancer and Radiation Biology

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any Five** of the following questions with question No.1 (Q1) is **Compulsory**, each question carries **equal** marks.

1. Elucidate the stages of cancer and add a note on carcinogenesis. 14
2. Explain the types of immune response and role of T-regulatory cells in immune invasion. 14
3. Write an essay on cancer therapy. 14
4. Enumerate the clinical use of effective therapies and anti-cancer drugs. 14
5. Describe ionizing radiation and principles involved in radiation dosimetry. 14
6. What are oncogenes ? Explain the mechanism of oncogene activation in chromosomal translocations. 14
7. Give the general classification of radiation. Add a note on scope and significance of radiation biology. 14
8. Write a short note on the following :
 - (a) NK cell 5
 - (b) Phytotherapy for cancer 5
 - (c) Radiation sensitizers 4

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