



QP CODE: 26019524



26019524

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BIOTECHNOLOGY

ELECTIVE - BT850402 - CANCER BIOLOGY

2019 Admission Onwards

8BAD0CA4

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. List the characteristics of tumour cell.
2. Comment on Prostate cancer.
3. Describe the molecular targets of chemical carcinogens.
4. What are physical carcinogens?
5. Define oncogene.
6. What is PTEN?
7. Why do cancer cells invade?
8. What is MKK4?
9. Describe the newest treatment for cancer.
10. Define CT.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Compare different types of cancer screening tests.
12. Explain the hallmarks of carcinogenesis
13. "Cancer is lifestyle disease". Justify.
14. Role of signal transduction in Cancer.





15. Describe various growth factors related to transformation of a cell .
16. How is the basement membrane formed?
17. Explain the role of serine proteases in metastasis.
18. Explain gene therapy along with its advantages.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Discuss the importance of tumor markers.
20. Discuss different types of carcinogenesis.
21. Explain the role of chemokines and integrins in metastasis
22. Explain in detail types of targeted therapies in cancer treatment.

(2×5=10 weightage)

