

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86
M.Sc. DEGREE EXAMINATION: BIOTECHNOLOGY
END SEMESTER EXAMINATION, APRIL, 2019

SUBJECT: MOLECULAR ONCOLOGY

MAX. MARKS: 100

CODE: 15BY/PI/MO24

TIME: 3 HOURS

SECTION - A

ANSWER ALL THE QUESTIONS

20x1=20

1. What is cytochrome 450?
2. Differentiate apoptosis and senescence.
3. What are tumour suppresser genes?
4. What is gene silencing?
5. What is carcinogenesis?
6. What is Bcl2?
7. What is DNA transfection?
8. List few antineoplastic compounds.
9. What is tamoxifen?
10. What is meant by casiopeinas?
11. What is metastasis?
12. What is p53 gene?
13. What is the significance of AKt inhibitors?
14. What is angiogenesis?
15. What is the importance of cyclin E?
16. What is chromosomal translocation?
17. What are immunoediting?
18. What is the importance of T cell?
19. What is EGFR mutation?
20. What are dendritic cells?

SECTION - B

ANSWER ANY FOUR QUESTIONS

4x10=40

21. Briefly explain different types of cancer.
22. Elaborate on personalised therapy.
23. What is metastasis?
24. Discuss Immunotherapy.
25. Give an account on chemotherapy drugs.
26. Account for the early markers of cancer.
27. Discuss the role of oncogenes and tumour suppressor genes.

SECTION - C

ANSWER ANY TWO QUESTIONS

2x20=40

28. Describe cell cycle check points and genes that regulate them.
29. Give an over view of signaling pathways involved in cancer.
30. Write an account on molecular diagnosis and prognosis in cancer.
31. Discuss the preventive measures for cancer.