

TM244251V

15.4

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024

2022 ADMISSIONS REGULAR

SEMESTER IV - ELECTIVE COURSE ZOOLOGY

ZO4E03TM20 - Cancer Biology

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Differentiate between hyperplasia and dysplasia.
2. Write notes on anaplasia and neoplasia.
3. Expand and make notes on TGF alpha.
4. Comment on TNF.
5. Write an account on endocrine cancer.
6. Comment on the role of X-rays in cancer.
7. Write a note on two hit model of tumor development.
8. Comment on cadherins.
9. Elaborate on the action of immunotherapy against cancer.
10. Analyze the importance of clinical breast examination in cancer screening.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Write a short note on nomenclature of neoplasms.
12. Write an account on the screening methods of lung cancer.
13. Give a detailed account on stem cells and cancer.
14. Write a detailed account on pancreatic cancer.
15. Describe Human herpes virus and cancer induction.
16. Explain angiogenesis in the context of cancer.
17. Give an account on epigenetic silencing of tumor suppressor gene.
18. Enumerate the important cellular proto-oncogenes.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Explain the epidemiology of cancer. What are the different factors which increases the risk of cancer incidence?
20. Explain the role of signal transduction pathways in cancer.
21. Describe thyroid cancer with special mention to its types, symptoms and treatment methods.
22. With suitable diagrams explain the VEGF signaling pathway.

