

Cancer, a deadly disease: Myths and Facts, CCC419
Mid-semester exam, Wednesday, February 5th, 2025; Marks 50: Answer all questions

1. Cancer incidence is rising due to higher life expectancy.
 - a. True
 - b. False
2. Not all cancers are tumors, but all tumors are cancers.
 - a. True
 - b. False
3. Biomarkers are useful for cancer diagnosis. However, they cannot help predicting how long a patient will live after receiving cancer treatment.
 - a. True
 - b. False
4. Stage four clinical trials must take place before the treatment is approved by the Food and Drug Administration agency.
 - a. True
 - b. False
5. The most diagnosed cancer type is:
 - a. Carcinoma
 - b. Leukaemia
 - c. Sarcoma
 - d. Lymphoma
6. Highly abnormal cancers can potentially be cured by immunotherapy.
 - a. True
 - b. false
7. Which of the following cancer is considered very slow growing?
 - a. Prostate cancer
 - b. Leukaemia
 - c. Brain tumor
 - d. None of the above
8. Mutated nerve cells give rise to brain cancer.
 - a. True
 - b. False
9. Which cancer type doesn't use TNM staging for diagnosis?
 - a. Prostate
 - b. Liver
 - c. Breast
 - d. Brain
10. Our immune system cannot kill cancer cells.
 - a. True
 - b. False
11. A person with pancreatic cancer lives shorter than a person with breast cancer. That may be because: (choose the right answer)
 - a. Pancreatic cancers are diagnosed very late
 - b. Pancreatic cancers are highly mutated
 - c. Breast cancers are slow growing
 - d. Pancreatic cancers are difficult to treat
 - e. All the above
12. A person diagnosed with a tumor has T3N2M0. This tumor is considered benign.

- a. True
 - b. False
13. Typically, leukaemia is detected earlier than liver cancers.
- a. True
 - b. False
14. Like humans, which species of domestic birds have high rates of ovarian cancer?
- a. Pigeon
 - b. Duck
 - c. Hen
 - d. Quail
15. All cells in a growing tumour mass are identical because it begins from a single cell.
- a. True
 - b. False
16. A species can have a high cancer risk if it reaches puberty fast and has a short life span.
- a. True
 - b. False
17. Whales don't generally have cancer. But if exposed to polluted water, they can develop cancer. This is due to a mismatch in environment and life history.
- a. True
 - b. False
18. Exposure to radiation leads to cell death. In which animal species has this been documented to occur most quickly?
- a. Human
 - b. Elephant
 - c. Sperm whale
 - d. None of these
19. Can cancer be ever contagious?
- a. Yes
 - b. No
20. Humans have more cancer risk than mice as they have more cells and live longer.
- a. True
 - b. False
21. Mole rats never have cancers, even if you keep them in captivity for very long.
- a. True
 - b. False
22. Hypertumors can protect animals from developing large cancers.
- a. True
 - b. False
23. An animal having a slower metabolism may have a reduced risk of cancer.
- a. True
 - b. False
24. A person working in a factory for a year that produces carcinogenic chemicals was diagnosed with stage four lung cancer during a regular check-up in the factory clinic. He held the factory management responsible for his disease. Could his allegation be true?
- a. Yes
 - b. No
25. Cancer is a disease of random mutation. Lifestyle factors don't affect cancer risk.
- a. True
 - b. False