

Cancer, a deadly disease: Myths and Facts, CCC419
End of semester exam, Friday, February 21st, 2025
Marks 50, Answer all questions, Choose the best answer

1. Cancer is an inherited condition, so it cannot be prevented by lifestyle changes.
 - a. True
 - b. False
2. Radiation is used to treat cancer, yet it can also cause cancer.
 - a. True
 - b. False
3. Brachytherapy is a form of
 - a. Chemotherapy
 - b. Immunotherapy
 - c. Surgery
 - d. None of the above
4. Currently, no vaccines are available to the public for cancer prevention or treatment.
 - a. True
 - b. False
5. Targeted therapies focus specifically on cancerous tissue, but they tend to be more toxic than other types of cancer treatments.
 - a. True
 - b. False
6. A person who has a kidney transplant is at a higher risk of developing cancer.
 - a. True
 - b. False
7. Which type of cancer treatment listed below has the potential for long-term memory?
 - a. Radiation
 - b. Chemotherapy
 - c. Immunotherapy
 - d. All above
8. Treatment-resistant cells emerge in tumors only after drug treatment.
 - a. True
 - b. False
9. Special diets can help treat certain cancer patients.
 - a. True
 - b. False
10. Stem cell transplantation is routinely used for treating which type of cancer below?
 - a. Breast
 - b. Bone
 - c. Blood
 - d. None
11. Stem cells collected at birth can be used for cancer treatment.
 - a. True
 - b. False
12. Which vaccine listed below is routinely used to treat early-stage bladder cancer?
 - a. Polio
 - b. Measles, Mumps, Rubella
 - c. Tuberculosis
 - d. Typhoid
13. Certain viruses can kill cancer cells upon infection.
 - a. True

- b. False
14. Which one of the following is not used for cancer treatment?
- Particle accelerator
 - X-ray machine
 - Microwave generator
 - Mercury vapor lamp
15. Chemotherapy is commonly used to treat malignant tumors
- True
 - False
16. Which strategy can be used to remove a localised solid tumor?
- High voltage electricity
 - Cryotherapy
 - Laser
 - Hyperthermia
 - All the above
17. Which of the following nutrients is considered the worst for cancer patients?
- Simple carbohydrates like refined sugar
 - Complex carbohydrates like fibre-rich food
 - High protein like those in red meat
 - High fat like that in nuts
18. In certain types of immunotherapies, cancer patients receive their own immune cells.
- True
 - False
19. To prescribe targeted therapies, the patient must have special tests to know specific abnormalities in cancer cells.
- True
 - False
20. Maximum tolerated doses of cancer drugs trigger resistance.
- True
 - False
21. AI/ML can help in which of the following aspects of cancer?
- Prevention
 - Diagnosis
 - Treatment
 - Prediction
 - All the above
22. Cancer can happen from bacterial infection.
- True
 - False
23. Cancer cells can readily neutralise drugs to become resistant.
- True
 - False
24. Genetic differences in cancer cells drive drug resistance.
- True
 - False
25. Smoking is only associated with lung cancer.
- True
 - False

1. b
2. a
3. d
4. b
5. b
6. a
7. c
8. b
9. a
10. c
11. a
12. c
13. a
14. d
15. a
16. e
17. a
18. a
19. a
20. a
21. e
22. a
23. a
24. a
25. b