Cancer Tutorial Assignment
45 points

Name ____________________________

1. *Why does it appear that there is a cancer epidemic?*

2. *Is cancer considered an inherited illness?*

3. *How can genetic alterations increase the probability of contracting cancer?*

4. Where do Carcinomas originate in the body?

5. *Where do sarcomas originate in the body?*

6. *Where do lymphomas originate in the body?*
7. Where do leukemias originate in the body?

8. From what you have already learned about mitosis when do the chromosomes become present in a cell?

9. From what you have already learned about protein synthesis is one side of the helix or both sides of a helix read when a protein needs to get made?

10. Where do genes reside?

11. In what 3 general ways can DNA be mutated?

12. In which part of mitosis would this happen?
13. How does the number of cells in the basal base stay the same when normal growth is occurring?

14. What is the name of the normal genes related to oncogenes?

15. What type of cellular pathways do these normal genes control?

16. What do transcription factors do in the cell?

17. What is an oncogene?

18. How are oncogenes and protein synthesis related to one another?
19. What is the other group of genes implicated in causing cancer?

20. How can a tumor suppressor gene be “lost”?

21. What do tumor suppressor genes tell the body to produce?

22. What is the name of the tumor suppression gene that triggers cell suicide?

23. When does the p53 tell the cell to commit suicide?
24. What are DNA repair genes?

25. From what you have learned about mitosis in what phase of mitosis would this problem occur?

26. Is cancer usually due to only one mutation?

27. Are the three major mutations you have just learned about the only kind of mutations that cause cancer?

28. What keeps cell growth normal?

29. How does cancer disrupt normal growth of cells?
30. What is cell suicide?

31. What is the name of the process that is not shutting down after normal cell division?

32. What is a tumor?

33. What happens to the surrounding tissue as the tumor grows?

34. What are the two mechanisms that spread cancer? Explain how they differ?

35. What is the difference between a malignant tumor and a benign tumor?
36. Which one is considered cancer and why?

37. What is the number of deaths caused by cancer that can be attributed to smoking?

38. What is the name of the most serious skin cancer?

39. What is the most dangerous combination of lifestyle choices that cause cancer?

40. What are the top two countries that show a correlation between meat consumption and colon cancer?

41. What groups of foods show dramatic evidence in reducing cancer rates?

42. What is HPV?