**Chapter 11**

**Test Review**

**Define the following terms:**

1. nucleic acid 16. polymer
2. amino acid 17. nucleotide
3. nitrogenous base 18. double helix
4. pyrimidine 19. peptide bond
5. purine 20. replication
6. transcription 21. translation
7. point mutation 22. nondisjunction
8. frameshift mutation 23. acceptor end
9. chromosomal mutation 24. gene
10. insertion 25. mutagen
11. deletion 26. chromosome
12. translocation 27. anticodon
13. inversion 28. codon
14. exon
15. intron

29. What are the 4 nitrogenous bases found in DNA? Which bases pair up?

30. What are the 4 nitrogenous bases found in RNA? Which bases pair up?

32. What are the three types of RNA?

33. State the contribution of Watson and Crick in regards to DNA.

34. How many possible codons are used in the process of protein synthesis?

35. List several differences between DNA and RNA.

36. State the function of the following:

1. mRNA
2. tRNA
3. rRNA

37. How/why are hydrogen bonds important to the process of DNA replication?

38. List the steps involved in the process of DNA replication. Where does it take place?

39. List the steps involved in the process of transcription. Where does it take place?

40. List the steps involved in the process of translation. Where does it take place?