**DNA Diagram Review**

**Diagram A**

1. What molecule is shown in this diagram? How do you know?
2. What is letter a referring to? What do the ‘T’, ‘S’ and ‘P’ stand for?
3. What types of bonds are breaking at letter b?
4. Write the letters of the two semi-conservative strands of DNA that would be formed after this process. Highlight the old strands red and the new strands blue.

**Diagram B**

1. What process is being demonstrated in diagram B1? Is this process sexual or asexual reproduction? Does it occur to create somatic or gametic cells?
2. Explain the relationship between diagram B1 and B2?

**Diagram C**

1. Look at diagram C1. What process is being shown at letter a? How do you know?
2. Look at diagram C1. What process is being shown at letter b? How do you know?
3. Look at diagram C2. What process is being shown at letter a? What product is being produced?
4. What product is being produced from process b in diagram C2? What do the abbreviations in the boxes represent? What types of bonds are holding them together?

**Diagram D**

1. Recreate this chart. Use the diagram complete the chart:

**Diagram E**

1. What process is shown in this diagram? Where does this process take place?
2. Compare and contrast codons and anticodons.
3. Where do the amino acids floating freely in the cytoplasm come from?