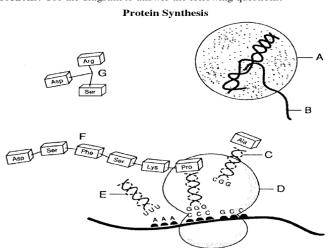
TAKS Practice Questions--DNA

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

Directions: Use the diagram to answer the following questions.



- 1. What process is taking place in the structure labeled A in the diagram? Transcription of mRNA
 - b. Translation of mRNA
- c. Replication of mRNA
- d. Mutation of mRNA
- 2. In the illustration, information from mRNA is used to produce proteins. What is this process called?
 - a. Transcriptionb. Translation

- c. Replicationd. Gene regulation
- 3. What does messenger RNA do during protein synthesis?
 a. Copies the coded message from the DNA and carries it into the cytoplasm
 b. Copies the coded message from the DNA and carries it into the nucleus

 - Carries amino acids and adds them to the growing protein
 - d. Copies the coded message from the protein and carries it into the nucleus
- 4. Sickle-cell anemia is a disorder resulting from a mutation that leads to the production of an abnormal protein. Which component of the DNA molecule provides instructions for the production of the protein?

 a. The phosphate groups

 c. The sequence of nitrogen bases

 b. The sugar molecules

 d. The bonds that hold the sugars to the Bases

- 5. Which of the following does ribonucleic acid, but not deoxyribonucleic acid, contain?
 - I. Ribose
 - II. Phosphate group