

Multiple Choice

- 14) Which of the following is attached to the transfer RNA (tRNA)?
A. DNA B. ribosome C. amino acid D. nucleic acid
- 15) Which of the following is not part of protein synthesis?
A. replication B. translation C. transcription
- 16) The codon is located on the
A. mRNA. B. tRNA. C. rRNA. D. DNA.
- 17) In the RNA molecule, which nitrogen base is found in place of thymine?
A. guanine B. cytosine C. thymine D. uracil
- 18) During the process of transcription, which of the following is produced?
A. H₂O B. ATP C. mRNA D. DNA
- 19) The actual site of protein synthesis is the
A. nucleus. B. mitochondrion. C. chloroplast. D. ribosome.
- 20) If the DNA template reads "ATA", then which of the following would be the corresponding sequence on the mRNA?
A. UAU B. ATA C. TUT D. UCU
- 21) The genetic code is based upon the reading of how many bases at a time?
A. one B. two C. three D. four
- 22) Amino acids are held together by ___?___ bonds.
A. hydrogen B. peptide C. ionic D. high energy
- 23) How many codons are needed to specify three amino acids?
A. 3 C. 9
B. 6 D. 12
- 24) One similarity between DNA and messenger RNA molecules is that they both contain
a. the same sugar
b. genetic codes based on sequences of bases
c. a nitrogenous base known as uracil
d. double-stranded polymers
- 25) Some events that take place during the synthesis of a specific protein are listed below.
a. Messenger RNA attaches to a ribosome.
b. DNA serves as a template for RNA production.
c. Transfer RNA bonds to a specific codon.
d. Amino acids are bonded together.
e. RNA moves from the nucleus to the cytoplasm.

The correct order of these events is

- a. B E A C D
b. D A E C B
c. B C E D A
d. C B A E D