

QUESTIONS CHR 2005 ISSUE 2

1. The portion of the gene called the exon:

- a. contains the non-vital component of the genetic code
- b. contains the information necessary to be translated into a protein
- c. contains nonsense sequences that allow proteins to form tertiary structures
- d. controls the base pair sequencing enzymes

2. RNA differs from DNA in the following ways:

- a. RNA is double stranded, contains the nucleotide uracil instead of thymine and the sugar backbone ribose rather than deoxyribose
- b. RNA is single stranded, contains the nucleotide uracil instead of thymine and the sugar backbone ribose rather than deoxyribose
- c. RNA is single stranded, contains the nucleotide adenine instead of thymine and the sugar backbone ribose rather than deoxyribose
- d. RNA is single stranded, contains the nucleotide uracil instead of thymine and the sugar backbone deoxyribose rather than ribose

3. The process by which multiple different proteins can be coded for by a single gene:

- a. Occurs because the DNA is a very large molecule and codes for multiple genes in a sequential fashion
- b. Involves the transcription of a common portion of the gene that is necessary to manufacture all proteins
- c. Occurs through the process of RNA splicing
- d. Does not occur, one gene is responsible for the production of one protein only

4. The process by which proteins are manufactured involves the following chain of events:

- a. DNA transcription, RNA translation and post translational protein modification
- b. RNA transcription, DNA translation and post translational protein modification
- c. RNA translation, DNA transcription, and post translational protein modification
- d. Post translational protein modification, DNA transcription and RNA translation

5. Which of the following facts about DNA structure are true:

- a. Cytosine pairs with thymine and guanine pairs with adenine
- b. DNA contains bases classified as purine and pyrosines
- c. Cytosine pairs with guanine and adenine with thymine
- d. Uracil is found in all DNA

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