**Bio EOC practice quiz 6**

1. **During the process of protein synthesis, a section of the DNA molecule is copied into which other molecule?**
	1. **Nucleic acid c. messenger RNA**
	2. **Cytoplasmic DNA d. transfer RNA**
2. **A single sensory neuron cell extends from a person’s large toe to an area adjacent to the spinal canal of the central nervous system. Which process is responsible for the length of this cell?**
	1. **Cell reproduction c. cell growth**
	2. **Cell division d. cell diffusion**
3. **The enzyme catalase is involved in the breakdown of hydrogen peroxide into water and oxygen. During this reaction, the catalase**
	1. **Is unchanged c. is used up**
	2. **Is changed into a product d. is formed into a new enzyme**
4. **A human karyotype is shown in the diagram below. Which set of chromosomes represents a mutation?**

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* 1. **1 c. 21**
	2. **12 d. X**
1. **In the human karyotype above, how many autosomes are present?**
	1. **22 c. 44**
	2. **23 d. 45**
2. **In the human karyotype above, which cellular process went wrong?**
	1. **Photosynthesis c. cell division**
	2. **Respiration d. protein synthesis**
3. **In the human karyotype above, which mutation is most correct?**
	1. **Gene inversion**
	2. **Nondisjunction**
	3. **Chromosomal deletion**
	4. **Point mutation of a base**

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