Bozeman Transcription and Translation Quiz: <https://www.youtube.com/watch?v=h3b9ArupXZg>

1. What are the monomers for making a protein?

1. Deoxyribose
2. Uracil
3. Amino acids
4. Peptide bonds

2. What is the central dogma of Biology?

1. The quick brown fox jumped over the lazy dog
2. DNA goes to RNA which goes to Protein
3. DNA polymerase = DNA Replication, RNA Polymerase=Copying genes
4. Monomers make polymers

3. What is a gene?

1. A stretch of DNA that codes for many proteins
2. A stretch of RNA that codes for a single protein
3. A stretch of RNA that can be decodes in several ways to make several different proteins
4. A stretch of DNA that codes for a single protein

4. (mark all that are correct) Translation …

1. Is a process that results in Protein production
2. Is a process that results in RNA production
3. Is carried out by Ribosomes
4. is carried out by RNA Polymerase

5. What is a codon

1. Three nucleotides found on tRNA
2. Three nucleotides found on mRNA
3. Three nucleotides that contain Uracil not Thymine
4. 64 nucleotides that code for all of the amino acids

6. What dictates the final shape of the protein (mark all that are correct)

1. the order of Nucleotides in the gene sequence
2. the order of nucleotides on the mRNA
3. the order of codons on mRNA
4. the position of the promoter and terminator.

7. When is uracil used

1. When DNA Polymerase replicates DNA
2. When DNA Polymerase transcribes RNA
3. When RNA is made the Adenine is replaced with Uracil
4. When RNA polymerase makes RNA

8. What does a stop codon do

1. tells the ribosome to stop translating the mRNA
2. tells RNA Polymerase to stop making mRNA
3. tells the tRNA to add Methionine
4. tells DNA Polymerase to stop making protein

9. In the cook, cook-book, recipe, meal analogy, what does the cook-book represent?

1. The protein
2. mRNA
3. tRNA
4. The chromosome

10. If you were to use the DNA nucleotides TTT as a template what would be the anticodon

1. TTT
2. AAA
3. UUU

**1. c**

**2. b**

**3. d**

**4. a,c**

**5. b**

**6. a,b,c**

**7. d**

**8. a**

**9. d**

**10. c**