**1.** Which substance is a base found in RNA?

A. Ribose

B. Thymine

C. Adenosine

D. Uracil

(Total 1 mark)

**2.** Where is an anti-codon located?

A. tRNA

B. mRNA

C. DNA

D. Ribosomes

(Total 1 mark)

**3.** How would the following DNA sequence, ACGTTGCATGGCA, be transcribed?

A. UGCAACGUACCGU

B. TGCAACGTACCGT

C. ACGTTGCATGGCA

D. ACGUUGCAUGGCA

(Total 1 mark)

**4.** During the process of translation which of the following statements describes the relationship between nucleic acids?

A. Anticodons on mRNA bind to complementary codons on DNA.

B. Anticodons on tRNA bind to complementary codons on mRNA.

C. Bases on DNA bind to complementary bases on mRNA.

D. A single strand of mRNA is produced from the DNA in the nucleus.

(Total 1 mark)

**5.** If mRNA has a codon CAU, what is the corresponding anticodon on the tRNA molecule?

A. CAT

B. GUA

C. CAU

D. GTA

(Total 1 mark)

**6.** The process of translation involves the use of transfer RNA (tRNA) and amino acids. Outline the structure of tRNA.

(Total 5 marks)

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**7.** Outline the process of translation.

(Total 5 marks)

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