Week 5 Post-Lesson Quiz - 2022 8/10 points

Week 5 Post-Lesson Quiz - 2022

Question 1 1/1 point

The sequence of a gene that controls the activation of transcription is called a(n) _____.

A	exon
B	intron
	promoter You a swe
D	terminator
E	stop codon

Question 2 1/1 point

Which of the following processes does NOT occur during RNA processing?

A	splicing
	translation You a swe
C	addition of 5′ G-cap
D	addition of a 3′ poly-A sequence

Question 3 ✗ 0/1 point

Which statement is false?

A	Rough endoplasmic reticulum is where amino acid polypeptides are processed.
✓	A number of RNA strands combine with nucleocapsid proteins in the formation of one virus Co ec a swe
	Genomic and subgeneric RNA are generated from -sense RNA. You a swe
D	Spike is a structural protein.
E	The genome of SARS CoV-2 is RNA..

Question 4 ✓ 1/1 point

The synthesis and processing of RNA occurs in which cellular compartment?

	nucleus You a swe
B	rough endoplasmic reticulum
C	smooth endoplasmic reticulum
D	mitochondria
E	Golgi apparatus

Question 5 ✓ 1/1 point

Which RNA molecule is involved in adding amino acids to the growing peptide chain during translation?

A	mRNA
	tRNA You a swe

C	rRNA
D	miRNA
E	snRNA

Question 6 ✓ 1/1 point

What are the protein coding regions of genes called?

A	spliceosomes
	exons You a swe
C	introns
D	anti-codons
E	mRNA

Question 7 ✓ 1/1 point

The genetic code that produces amino acids during translation is said to be degenerate. What does this mean?

A	One codon can code for more than one amino acid.
B	One codon codes for only one amino acid.
C	One codon codes for two different amino acids.
	Multiple codons can code for one amino acid You a swe
E	A and D
F	B and D

Question 8

✗ 0/1 point

Using the codon table , which of these peptide sequences is the correct translation of the mature **mRNA** molecule transcribed from this sequence of **DNA**:
5'-TTT ACA ACG AGC TGT TTC-3'?

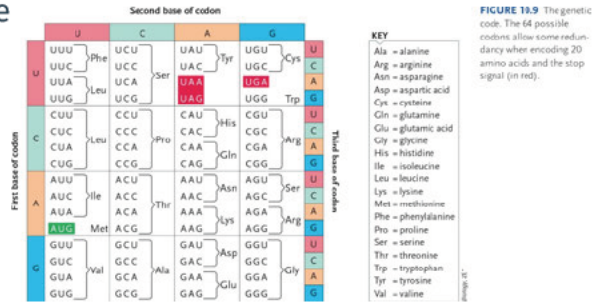

FIGURE 19.9 The genetic code. The 64 possible codons allow some redundancy when encoding 20 amino acids and the stop signal (in red).

A	**Lys – Thr - Ser - Cys - Cys- Lys**
	Lys – Cys - Cys- Ser – Thr – Lys You a swe
C	**Phe – Cys - Ser - Thr – Thr – Phe**
✓	**Phe – Thr – Thr – Ser – Cys – Phe** Co ec a swe

Question 9

✓ 1/1 point

What are the protein coding regions of genes called?

A	spliceosomes
	exons You a swe
C	introns
D	anti-codons
E	promoter

Question 10

✓ 1/1 point

What is the function of viral polymerase in the SARS CoV-2 infection cycle?

A	exocytosis
B	breaking down introns
C	making polymers of amino acids
D	translation of subgeneric RNA
	producing sequences of RNA from RNA You a swe

Enter your test instructions here...