Assignment 5

Gluconeogenic enzymes are found in which part of the body?

1. Liver
2. Kidney
3. Brain
4. Muscle

Which of the following enzymes is not involved in the citric acid cycle?

1. Citrate synthase
2. Aconitase
3. Malate dehydrogenase
4. NADH dehydrogenase

You cannot obtain enough fructose from which organ to meet your body's fructose needs:

1. Liver
2. Kidney
3. Pancreas
4. Stomach

The length of one complete turn of DNA is:

1. 1.5 µm
2. 1.5 nm
3. 1.5 pm
4. 1.5 mm

What is the monosaccharide component of chondroitin sulfate?

1. Glucose
2. Glycerol
3. Mannose
4. Fucose

What is the major condition associated with Fleschkelner's syndrome?

1. Marfan's syndrome
2. Loeys-Dietz syndrome
3. Ehlers-Danlos syndrome
4. Hunter syndrome

What should be the complementary base of AT?

1. T
2. A
3. C
4. G

What is the correct molecular weight of chondroitin sulfate in grams?

1. 300 g/mol
2. 30 g/mol
3. 3000 g/mol
4. 3 g/mol

The DNA sequence of the template strand is ATTTGTCATTG. What is the DNA sequence of the cDNA strand?

1. TTTGTCACTTG
2. TTTGTCATTG
3. CTTGTCATTG
4. GATTGTCATTG

Which of the following statements is False?

1. Meiosis is a type of sexual reproduction.
2. Mitosis is a type of asexual reproduction.
3. Mitosis produces gametes.
4. Meiosis is an essential process in sexual reproduction.

The number of chromosomes in a human somatic cell is:

1. 46
2. 23
3. 92
4. 2

The 5' end of a DNA strand is:

1. Cytosine
2. Adenine
3. Thymine
4. Guanine

What is the purpose of using RNA polymerase in transcription?

1. It synthesizes DNA from RNA.
2. It synthesizes RNA from DNA.
3. It synthesizes DNA from DNA.
4. It synthesizes RNA from RNA.

The DNA sequence of the template strand is ATTTGTCATTG. What is the RNA sequence of the cDNA strand?

1. UUUGACUGAGC
2. UUUGUCUGAGC
3. UUUGACUGAAG
4. UUUGUCUGAAG