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QUESTION 1

The separation of two annealed nucleic acid strands (ex. in preparation of DNA replication) can be accomplished by which of the following enzymes?

- A. DNA Polymerase I
- B. DNA Polymerase III
- C. Ligase
- D. Helicase
- E. Lipase

Correct Answer: D

Helicase is an enzyme that functions in unpackaging or separating 2 things (e.x. DNA strands).

QUESTION 2

$\sin(30+50) = ?$

- A. $\cos 30 \sin 50 - \sin 30 \cos 50$
- B. $\cos 80$
- C. $\sin 30 \cos 50 + \cos 30 \sin 50$
- D. $\tan 80 - \cos 30$
- E. $2 \sin 30 \cos 50$

Correct Answer: C

$\sin(x + y) = \sin x \cos y + \cos x \sin y$

QUESTION 3

Bacteria do not undergo meiosis (and sexual reproduction), but they have other mechanisms of attaining genetic diversity, such as the intake of free, naked DNA in the environment. This is called:

- A. Conjugation
- B. Transduction
- C. Pilus
- D. Transformation
- E. Bacteriophage



Correct Answer: D

Transformation is the definition of picking up free DNA from other bacteria that died. Conjugation is the transfer of DNA from a one cell to another via the pilus. Transduction is the use of bacteriophages (virus) to transfer DNA from one bacteria cell to another via infection.

QUESTION 4

A titration of NaOH and HF is made. Which of the following equivalence points pH can be possible?

- A. 7.0
- B. 13.5
- C. 1.2
- D. 4.5
- E. 9.3

Correct Answer: E

The titration of a strong base with a weak acid produces a basic equivalence point. However, a basic equivalent point is not anything beyond 11 usually.

QUESTION 5

How many chromatids will there be with 20 homologous pairs of chromosomes?

- A. 40
- B. 60
- C. 80
- D. 100
- E. 10

Correct Answer: C

If there were 20 homologous chromosomes, it means there are 40 chromosomes and thus, 80 chromatids.

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