

EmSAT Practice Test Questions and Answers

1. What is $\int 2x \, dx$?

- A) 2
- B) $x^2 + C$
- C) $2x^2 + C$
- D) $x + C$

2. What is osmosis?

- A) Movement of solute from low to high concentration
- B) Movement of water from high to low solute concentration across a semipermeable membrane
- C) Active transport of glucose
- D) Movement of oxygen into cells

3. Expand: $(x + 3)^2$

- A) $x^2 + 9$
- B) $x^2 + 6x + 9$
- C) $x^2 + 3x + 9$
- D) $x^2 - 6x + 9$

4. What is a codon?

- A) A single DNA base
- B) A sequence of three bases on mRNA that codes for one amino acid
- C) A type of mutation
- D) An entire gene

Answers: 1-B 2-B 3-B 4-B

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