

# ESAT Practice Test Questions and Answers

**1. Solve:  $|2x - 3| < 7$**

- A)  $-2 < x < 5$
- B)  $x > 5$  or  $x < -2$
- C)  $-2 \leq x \leq 5$
- D)  $x > 5$

**2. What is the ideal gas law?**

- A)  $PV = nRT$
- B)  $PV = nT$
- C)  $P = nRT/V^2$
- D)  $PV^2 = nRT$

**3. What is a buffer solution?**

- A) A solution that resists pH change on addition of small amounts of acid or base
- B) A solution of neutral pH
- C) A solution that changes colour with pH
- D) A solution that conducts electricity

**4. What is Avogadro's constant?**

- A)  $6.022 \times 10^{23} \text{ mol}^{-1}$
- B)  $6.022 \times 10^{22} \text{ mol}^{-1}$
- C)  $1.38 \times 10^{-23} \text{ mol}^{-1}$
- D)  $9.81 \times 10^{23} \text{ mol}^{-1}$

**Answers: 1-A 2-A 3-A 4-A**

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