

BHK Practice Test Questions and Answers

1. Wolff's Law states that bone will:

- A) Weaken with repeated mechanical loading
- B) Adapt its structure by adding or removing tissue in response to the mechanical demands placed upon it
- C) Maintain a fixed density regardless of loading
- D) Remodel only in response to hormonal signals, not mechanical stress

2. Angular momentum is conserved when:

- A) Net linear force is zero
- B) Net external torque acting on a system is zero
- C) The body's center of mass is stationary
- D) Gravitational force is eliminated

3. Impulse in biomechanics is defined as:

- A) Force divided by time
- B) Force multiplied by time ($F \times \Delta t$)
- C) Mass divided by velocity
- D) Work done per unit distance

4. In biomechanics, torque is defined as:

- A) The linear force applied along a limb
- B) The force per unit area on a joint surface
- C) The rotational effect of a force about an axis, equal to force times moment arm
- D) The total kinetic energy of a rotating segment

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

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