

# Bachelor of Mechanical Engineering Practice Test Questions and Answers

**1. What is the primary function of a flywheel in mechanical systems?**

- A) To reduce friction
- B) To store rotational energy and smooth out fluctuations
- C) To increase speed
- D) To convert linear motion to rotational motion

**2. In thermodynamics, what does the first law state?**

- A) Energy cannot be created or destroyed, only transformed
- B) Entropy always increases
- C) Heat flows from hot to cold
- D) Perfect efficiency is impossible

**3. What is the unit of measurement for stress in the SI system?**

- A) Newton (N)
- B) Pascal (Pa)
- C) Joule (J)
- D) Watt (W)

**4. In fluid mechanics, what is the Reynolds number used to determine?**

- A) Fluid density
- B) Whether flow is laminar or turbulent
- C) Fluid viscosity
- D) Pressure drop

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

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