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Model Questions for Entrance Test for PhD Admissions Department of CIVIL Engineering

1. Elasticity of a body is
 - a) the property by which a body returns to its original shape after removal of the load
 - b) the ratio of stress to strain
 - c) the resistance to the force acting
 - d) large deformability as in case of rubber.

2. The stress in a member subjected to a force is
 - a) continued deformation under sustained loading
 - b) load per unit area
 - c) the resistance offered by the material per unit area to a force
 - d) the strain per unit length

3. A perfectly elastic body is
 - a) that body which recovers its original shape completely after removal of force
 - b) a body of such a material with lot of extensibility
 - c) a body made of rubber only
 - d) a body whose cross sectional dimensions are very small.

4. Permanent set is
 - a) the force which acts permanently on the body
 - b) irrecoverable deformation in the body
 - c) the shape of the member just after completion of construction
 - d) ratio of Poisson's ratio to Young's Modulus

5. Young's Modulus is the ratio of the normal stress to the
 - a) normal strain within elastic limit
 - b) reciprocal of normal strain within elastic limit
 - c) normal strain within proportional limit
 - d) normal strain at yield point.

6. As per elastic theory of design the factor of safety is the ratio of
 - a) working stress to yield stress
 - b) yield stress to working stress
 - c) ultimate strength to yield stress
 - d) ultimate load to load at yield