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Q :) The volumetric strain in a sphere is equal to ----- times the linear strain in the diameter

A : 4

B : 3

C : 2

D : 1

Q :) The ratio of volumetric stress to volumetric strain is called:

A : Bulk modulus

B : Young's modulus

C : Shear modulus

D : Modulus of rupture

Q :) The value of Poisson's ratio depends upon :

A : Material of test specimen

B : Magnitude of load

C : Cross section

D : None of the above

Q :) The SI unit of stress is

A : N/m^2

B : N/cm^2

C : Pascal

D : Both (a) and (c)

Q :) For fatigue test the pieces are tested-

A : upto the load limit

B : Upto some time of cycles

C : Upto the line limit

D : Till fracture

Q :) The relationship among the three elastic constant is

$$\mathbf{A : E = \frac{3K+C}{9KC}}$$

$$\mathbf{B : E = \frac{KC}{3K+C}}$$

$$\mathbf{C : E = \frac{9KC}{3K+C}}$$

$$\mathbf{D : E = \frac{3K+C}{KC}}$$

Q :) Which of the following materials is more elastic?

A : Plastic

B : Steel

C : Wood

D : Rubber

Q :) A conical bar with base diameter D and length L has a unit weight of γ . The elongation due to its weight is given by

A : $\frac{3E}{\gamma L^2}$

B : $\frac{\gamma L^2}{6E}$

C : $\frac{6F}{\gamma L^2}$

D : $\frac{\gamma L^2}{3E}$

Q :) Factor of safety is defined as the ratio of-

A : Breaking stress to ultimate stress

B : Working stress to ultimate stress

C : Ultimate stress to working stress

D : Ultimate stress to breaking stress

Q :) For a certain material Poisson's ratio is 0.25. Then the ratio of modulus of elasticity to the bulk modulus for the material is

A : 1.0

B : 1.5

C : 0

D : 0.5

Q :) The deformation of the bar per unit length in the direction of the force is known as-

A : Linear strain

B : Volumetric strain

C : Lateral strain

D : Shear strain

Q :) The work done to strain a material within elastic limits is known as

A : Work modulus

B : Resilience

C : Virtual work

D : Resistance

Q :) The Poisson's ratio for steel varies from-

A : 0.23 to 0.27

B : 0.32 to 0.42

C : 0.31 to 0.34

D : 0.25 to 0.33

Q :) If α denotes the co-efficient of linear expansion. T the rise in temperature the thermal stress is given by

A : $\frac{\alpha}{ET}$

B : $\frac{E\alpha}{T}$

C : $\frac{ET}{\alpha}$

D : $ET\alpha$

Q :) A steel bar is rigidity held at two ends. The temperature of the bar is allowed to rise by 80°C . The stress produced in the bar will be-

A : Compressive

B : Tensile

C : Torsional

D : Thermal

Q :) A bolt is made to pass through a tube and both of them are tightly fitted with the help of washers and nuts. If the nut is tightened, then-

A : Bolt and tube are under tension

B : Bolt is under compression and tube is under tension

C : Bolt and tube are under compression

D : Bolt is under tension and tube is under compression

Q :) A steel bar of 5 mm is heated from 15°C to 40°C and it is free to expand. The bar will induce-

A : No stress

B : Compressive stress

C : Tensile stress

D : Shear stress

Q :) The proportional limit of mild steel specimen is taken as the stress corresponding to a permanent set of

A : 0.25%

B : 0.1%

C : 0.2%

D : 0.01%

Q :) The extension of a circular bar tapering uniformly from diameter d_1 at one end to diameter d_2 at the other end, and subjected to an axial pull of P is given by-

- A :** $\delta l = \frac{4PE}{\pi l d^2}$
- B :** $\delta l = \frac{4\pi l d^2}{PE}$
- C :** $\delta l = \frac{4pl}{\pi E d_1 d_2}$
- D :** $\delta l = \frac{4P/E}{\pi d_1 d_2}$

Q :) For which of the following materials, the Poisson's ratio is expected to be the least?

A : Steel

B : Concrete

C : Cast iron

D : Copper

Q :) Match List I with List II and select the answer by using the codes given below.

List-I	List-II
A. Volumetric strain	1. $2(1 + \mu)$
B. Strain energy per unit volume	2. $3(1 - 2\mu)$
C. Ratio of Young's modulus to bulk modulus	3. $\frac{P}{E}(1 - 2\mu)$
D. Ratio of Young's modulus to modulus of rigidity	4. $p^2/2E$
	5. $2(1 - \mu)$

Codes:

A : 3, 4, 2, 1

B : 2, 3, 1, 4

C : 5, 4, 1, 2

D : 5, 4, 2, 1

Q :) Creep of a material is

A : Continued deformation with time under sustained loading

B : To become brittle

C : Disappearance of deformation on removal of load

D : Not being ductile

Q :) What is tenacity?

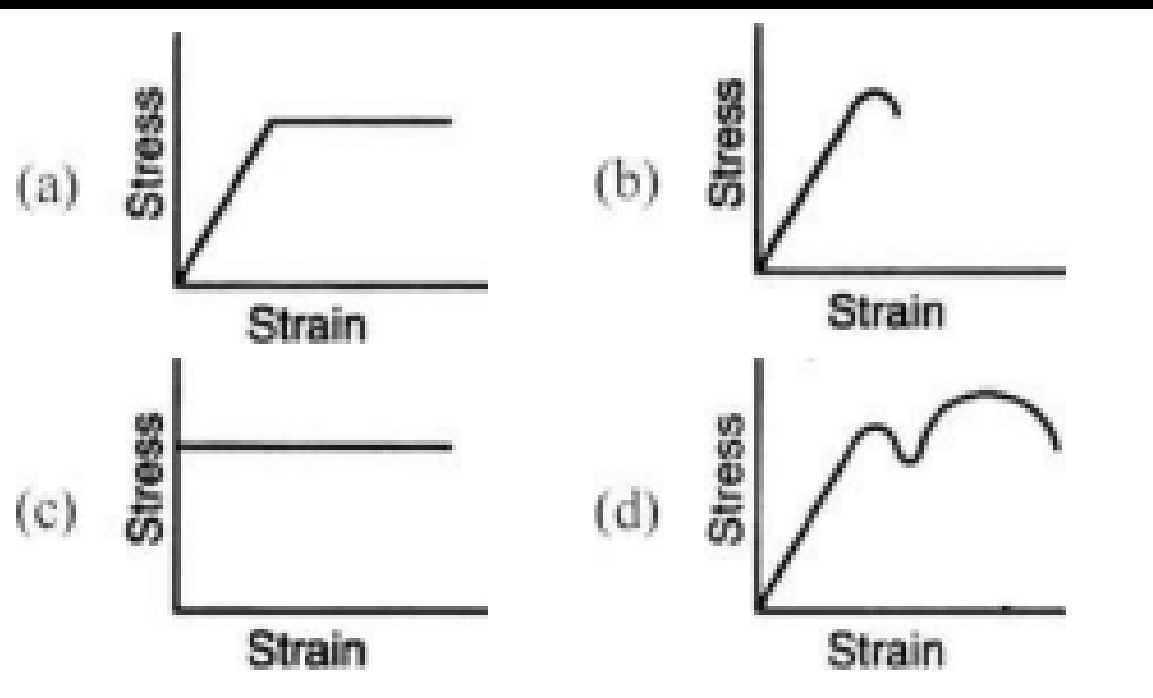
A : Ultimate strength in tension

B : Ultimate shear strength

C : Ultimate strength in compression

D : Ultimate impact strength

Q :) The stress-strain curve for an ideally plastic material is-



Q :) The unit of strain is-

A : kg/cm^2

B : Millimetre

C : Kg/cm^3

D : No unit

Q :) The standard gauge length over which the extension is to be measured to determine percentage elongation of specimen with initial cross-section of a_0 is

A : $6.56 \sqrt{a_0}$

B : $6.65 \sqrt{a_0}$

C : $6.60 \sqrt{a_0}$

D : $a_0 \sqrt{6.56}$

Q :) The corrosion resistance of a material is its-

A : Optical property

B : Thermal property

C : Chemical property

D : Physical property

Q :) The stress included in a member due to suddenly applied load is _____ the stress for gradual loading :

A : Same

B : Half

C : Twice

D : Thrice

Q :) Hook's law is applicable to:

A : anisotropic materials

B : Isotropic materials

C : Orthotropic materials

D : None of these

Q :) When a cube is subjected to three mutually perpendicular tensile stresses of equal intensity (σ), the volumetric strain is-

A : $\frac{3\sigma}{E} \left(1 - \frac{2}{m} \right)$

B : $\frac{E}{3\sigma} \left(1 - \frac{2}{m} \right)$

C : $\frac{3\sigma}{E} \left(\frac{2}{m} - 1 \right)$

D : $\frac{E}{3\sigma} \left(\frac{2}{m} - 1 \right)$

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