

13. If the momentum of a given body is doubled, its kinetic energy will

- (a) increase by 2 times,
- (b) increase by four times,
- (c) remain same,
- (d) get halved.

14. The young's modulus of a wire is defined as the stress which will increase the \_\_\_\_\_ of length of wire compared to its original length

- (a) half,
- (b) same amount,
- (c) double,
- (d) one fourth.

15. Modulus of rigidity is defined as the ratio of

- (a) longitudinal stress and longitudinal strain,
- (b) volumetric stress and volumetric strain,
- (c) lateral stress and lateral strain,
- (d) shear stress and shear strain.

16. The longitudinal stress induced in a thin-walled cylinder vessel is

- (a)  $\frac{pD}{2t}$ ,
- (b)  $\frac{pD}{4t}$ ,
- (c)  $\frac{pD}{t}$ ,
- (d)  $\frac{pD}{16t}$ ,

Where, ' $p$ ' is pressure in the vessel and ' $D$ ' & ' $t$ ' are the diameter and thickness of cylinder.

17. If the Poisson's ratio is 0.5, then the ratio of shear modulus to elastic modulus is

- (a) 0.33,
- (b) 0.5,
- (c) 1,
- (d) 2.

18. A state of pure shear in a bi-axial state of stress is given by

- (a)  $\begin{bmatrix} \sigma_1 & 0 \\ 0 & \sigma_2 \end{bmatrix}$ ,
- (b)  $\begin{bmatrix} \sigma_1 & 0 \\ 0 & -\sigma_1 \end{bmatrix}$ ,
- (c)  $\begin{bmatrix} \sigma_1 & \tau_{xy} \\ \tau_{xy} & \sigma_2 \end{bmatrix}$ ,

(d) none of the above

19. The value of poisson's ratio of a material is zero. Then material behave as a

- (a) rigid body,
- (b) perfectly elastic body,
- (c) perfectly plastic body,
- (d) ductile material.

20. A thin cylinder having thickness ' $t$ ' with both ends closed is subjected to internal pressure ' $p$ '. If the longitudinal stress at the surface is  $\sigma_0$ , then maximum shear stress will be

- (a)  $2\sigma_0$ ,
- (b)  $1.5\sigma_0$ ,
- (c)  $\sigma_0$ ,
- (d)  $0.5\sigma_0$ .

21. The ratio of maximum normal stress to maximum shear stress at any point of a solid circular shaft subjected to pure torsion is

- (a) 1:1,
- (b) 1:2,
- (c) 2:1,
- (d) 2:3

22. Consider a case of cantilever beam of rectangular cross-section having load  $W$  at its free end. If the depth of the beam is doubled and the load is halved, the deflection of the free end as compared to original deflection will be

- (a) 0.5,
- (b)  $1/8$ ,
- (c)  $1/16$ ,
- (d) 2

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**Yijin Wang**



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