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Materials Multiple Choice Questions and Answers

300+ TOP STRENGTH of Materials Multiple Choice Questions and Answers

Strength of Materials Multiple choice Questions:

- 1. Strain is defined as the ratio of
- (a) change in volume to original volume
- (b) change in length to original length
- (c) change in cross-sectional area to original cross-sectional area
- (d) any one of the above
- (e) none of the above.

Ans: d

2. Hooke's law holds good up to

- (a) yield point
- (b) limit of proportionality
- (c) breaking point
- (d) elastic limit
- (e) plastic limit.

Ans: b

3. Young's modulus is defined as the ratio of

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

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Ans: c

4. The unit of Young's modulus is

- (a) mm/mm
- (b) kg/cm
- (c) kg
- (d) kg/cm2
- (e) kg cm2.

Ans: d

5. Deformation per unit length in the direction of force is known as

- (a) strain
- (b) lateral strain
- (c) linear strain
- (d) linear stress
- (e) unit strain.

Ans: c



STRENGTH of Materials Multiple Choice Questions

6. It equal and opposite forces applied to a body tend to elongate it, the stress so produced is called

- (a) internal resistanpe
- (b) tensile stress
- (c) transverse stress
- (d) compressive stress
- (e) working stress.

Ans: b

7. The materials having same elastic properties in all directions are called

- (a) ideal materials
- (b) uniform materials
- (c) isotropic materials
- (d) paractical materials
- (e) elastic materials.

Ans: c

8. A thin mild steel wire is loaded by adding loads in equal increments till it breaks. The extensions noted with increasing loads will behave as under

- (a) uniform throughout
- (b) increase uniformly
- (c) first increase and then decrease
- (d) increase uniformly first and then increase rapidly
- (e) increase rapidly first and then uniformly.

Ans: d

9. 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
- (e) linear stress and lateral strain.

Ans: d

10. If the radius of wire stretched by a load is doubled, then its Young's modulus will be

- (a) doubled
- (b) halved
- (c) become four times
- (d) become one-fourth
- (e) remain unaffected.

Ans: e

11. The ultimate tensile stress of mild steel compared to ultimate compressive stress is

- (a) same
- (b) more

- (c) less
- (d) more or less depending on other factors
- (e) unpredictable.

Ans: b

12. Tensile strength of a material is obtained by dividing the maximum load during the test by the

- (a) area at the time of fracture
- (b) original cross-sectional area
- (c) average of (a) and (b)
- (d) minimum area after fracture
- (e) none of the above.

Ans: b

13. The impact strength of a material is an index of its

- (a) toughness
- (b) tensile strength
- (c) capability of being cold worked
- (d) hardness
- (e) fatigue strength.

Ans: a

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

- (a) half
- (b) same amount
- (c) double
- (d) one-fourth
- (e) four times.

Ans: b

15. Percentage reduction of area in performing tensile test on cast iron may be of the order of

- (a) 50%
- (b) 25%
- (c) 0%
- (d) 15%
- (e) 60%.

Ans: c

16. The intensity of stress which causes unit strain is called

- (a) unit stress
- (b) bulk modulus
- (c) modulus of rigidity
- (d) modulus of elasticity
- (e) principal stress.

Ans: d

17. True stress-strain curve for materials is plotted between

- (a) load/original cross-sectional area and change in length/original length
- (b) load/instantaneous cross-sectional area original area and log.
- (c) load/instantaneous cross-sectional area and change in length/original length
- (d) load/instantaneous area and instantaneous area/original area
- (e) none of the above.

Ans: b

18. During a tensile test on a specimen of 1 cm cross-section, maximum load observed was 8 tonnes and area of cross-section at neck was 0.5 cm2. Ultimate tensile strength of specimen is

- (a) 4 tonnes/cm2
- (b) 8 tonnes/cm2
- (c) 16 tonnes/cm2
- (d) 22 tonnes/cm2
- (e) none of the above.

Ans: b

19. For steel, the ultimate strength in shear as compared to in tension is nearly

- (a) same
- (b) half
- (c) one-third
- (d) two-third
- (e) one-fourth.

Ans: b

20. Which of the following has no unit

- (a) kinematic viscosity
- (b) surface tension

- (c) bulk modulus
- (d) strain
- (e) elasticity.

Ans: d

21. Which is the false statement about true stress-strain method

- (a) It does not exist
- (b) It is more sensitive to changes in both metallurgical and mechanical conditions
- (c) It gives, a more accurate picture of the ductility
- (d) It can be correlated with stress-strain values in other tests like torsion, impact, combined stress tests etc.
- (e) It can be used for compression tests as well.

Ans: a

22. In a tensile test on mild steel specimen, the breaking stress as compared to ultimate tensile stress is

- (a) more
- (b) less
- (c) same
- (d) more/less depending on composition
- (e) may have any value.

Ans: b

23. If a part is constrained to move and heated, it will develop

- (a) principal stress
- (b) tensile stress
- (c) compressive stress
- (d) shear stress
- (e) no stress.

Ans: c

24. Which of the following materials is most elastic

- (a) rubber
- (b) plastic
- (c) brass
- (d) steel
- (e) glass.

Ans: d

25. The value of modulus of elasticity for mild steel is of the order

- (a) 2.1xl05 kg/cm2
- (b) 2.1 X 106 kg/cm2
- (c) 2.1 x 107 kg/cm2
- (d) 0.1 xlO6 kg/cm2 (<?) 3.8 x 106 kg/cm2.

Ans: b

26. The value of Poisson's ratio for steel is between

- (a) 0.01 to 0.1
- (b) 0.23 to 0.27
- (c) 0.25 to 0.33
- (d) 0.4 to 0.6
- (e) 3 to 4.

Ans: c

27. The buckling load for a given material depends on

- (a) slenderness ratio and area of cross-section
- (b) Poisson's ratio and modulus of elasticity
- (c) slenderness ratio and modulus of elasticity
- (d) slenderness ratio, area of cross-section and modulus of elasticity
- (e) Poisson's ratio and slenderness ratio.

Ans: d

28. The total elongation produced in a bar of uniform section hanging vertically downwards due to its own weight is equal to that produced by a weight

- (a) of same magnitude as that of bar and applied at the lower end
- (b) half the weight of bar applied at lower end
- (c) half of the square of weight of bar applied at lower end
- (d) one-fourth of weight of bar applied at lower end
- (e) none of the above.

Ans: b

29. The property of a material by virtue of which a body returns to its original, shape after removal of the load is called

- (a) plasticity
- (b) elasticity
- (c) ductility
- (d) malleability

(e)	resilience.
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Ans: b

30. The materials which exhibit the same elastic properties in all directions are called

- (a) homogeneous
- (b) inelastic
- (c) isotropic
- (d) isentropic
- (e) visco-elastic.

Ans: c

31. The value of Poisson's ratio for cast iron is

- (a) 0.1 to 0.2
- (b) 0.23 to 0.27
- (c) 0.25 to 0.33
- (d) 0.4 to 0.6
- (e) 3 to 4.

Ans: b

32. The property of a material which allows it to be drawn into a smaller section is called

- (a) plasticity
- (b) ductility
- (c) elasticity
- (d) malleability
- (e) drawabihty.

Ans: b

33. Poisson's ratio is defined as the ratio of

- (a) longitudinal stress and longitudinal strain
- (b) longitudinal stress and lateral stress
- (c) lateral stress and longitudinal stress
- (d) lateral stress and lateral strain
- (e) none of the above.

Ans: c

34. For which material the Poisson's ratio is more than unity

- (a) steel
- (b) copper

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- (c) aluminium
- (d) cast iron
- (e) none of the above.

Ans: e

35. The property of a material by virtue of which it can be beaten or rolled into plates is called

- (a) malleability
- (b) ductility
- (c) plasticity
- (d) elasticity
- (e) reliability.

Ans: a

36. The change in the unit volume of a material under tension with increase in its Poisson's ratio will,

- (a) increase
- (b) decrease
- (c) remain same
- (d) increase initially and then decrease
- (e) unpredictable.

Ans: b

37. The percentage reduction in area of a cast iron specimen during tensile test would be of the order of

- (a) more than 50%
- (b) 25—50%
- (c) 10—25%
- (d) 5—10%
- (e) negligible.

Ans: e

38. If a material expands freely due to heating it will develop

- (a) thermal stresses
- (b) tensile stress
- (c) bending
- (d) compressive stress
- (e) no stress.

Ans: e

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39. In a tensile test, near the elastic limit zone, the

- (a) tensile strain increases more quickly
- (b) tensile strain decreases more quickly
- (c) tensile strain increases in proportion to the stress
- (d) tensile strain decreases in proportion to the stress
- (e) tensile strain remains constant.

Ans: a

40. The stress necessary to initiate yielding is

- (a) considerably greater than that necessary to continue it
- (b) considerably lesser than that necessary to continue it
- (c) greater than that necessary to stop it
- (d) lesser than that necessary to stop it
- (e) equal to that necessary to stop it.

Ans: a

Strength of Materials Interview Questions and Answers pdf:-

- 41. In the tensile test, the phenomenon of slow extension of the material, i. e. stress increasing with the time at a constant load is called
- (a) creeping
- (b) yielding
- (c) breaking
- (d) plasticity
- (e) none of the above.

Ans: a

42. The stress developed in a material at breaking point in extension is called

- (a) breaking stress
- (b) fracture stress
- (c) yield point stress
- (d) ultimate tensile stress
- (e) proof stress.

Ans: a

43. Rupture stress is

- (a) breaking stress
- (b) maximum load/original cross-sectional area
- (c) load at breaking point/A

- (d) load at breaking point/neck area
- (e) maximum stress.

Ans: d

44. The elasticity of various materials is controlled by its

- (a) ultimate tensile stress
- (b) proof stress
- (c) stress at yield point
- (d) stress at elastic limit
- (e) tensile stress.

Ans: d

45. The ratio of lateral strain to the linear strain within elastic limit is known as

- (a) Young's modulus
- (b) bulk modulus
- (c) modulus of rigidity
- (d) modulus of elasticity
- (e) Poisson's ratio.

Ans: e

46. The ratio of direct stress to volumetric strain in case of a body subjected to three mutually perpendicular stresses of equal intensity, is equal to

- (a) Young's modulus
- (b) bulk modulus
- (c) modulus of rigidity
- (d) modulus of elasticity
- (e) Poisson's ratio.

Ans: b

47. The stress at which extension of the material takes place more quickly as compared to the increase in load is called

- (a) elastic point of the material
- (b) plastic point of the material
- (c) breaking point of the material
- (d) yielding point of the material
- (e) ultimate point of the material.

Ans: d

48. In question 56, the internal reaction in bottom 80 cm length will

- (a) same in both cases
- (b) zero in first case
- (c) different in both cases
- (d) data are not sufficient to determine same
- (e) none of the above.

Ans: b

49. Flow stress corresponds to

- (a) fluids in motion
- (b) breaking point
- (c) plastic deformation of solids
- (d) rupture stress
- (e) none of the above.

Ans: c

50. When it is indicated that a member is elastic, it means that when force is applied, it will

- (a) not deform
- (b) be safest
- (c) stretch
- (d) not stretch
- (e) none of the above.

Ans: c

51. The energy absorbed in a body, when it is strained within the elastic limits, is known as

- (a) strain energy
- (b) resilience
- (c) proof resilience
- (d) modulus of resilience
- (e) toughness..

Ans: a

52. Resilience of a material is considered when it is subjected to

- (a) frequent heat treatment
- (b) fatigue
- (c) creep
- (d) shock loading

(e) resonant condition.

Ans: d

53. The maximum strain energy that can be stored in a body is known as

- (a) impact energy
- (b) resilience
- (c) proof resilience
- (d) modulus of resilience
- (e) toughness.

Ans: c

54. The total strain energy stored in a body is termed as

- (a) resilience
- (b) proof resilience
- (c) modulus of resilience
- (d) toughness
- (e) impact energy.

Ans: a

55. Proof resilience per material is known as

- (a) resilience
- (b) proof resilience
- (c) modulus of resilience
- (d) toughness
- (e) impact energy.

Ans: c

56. The stress induced in a body due to suddenly applied load compared to when it is applied gradually is

- (a) same
- (b) half
- (c) two times
- (d) four times
- (e) none of the above.

Ans: c

57. The strain energy stored in a body due to suddenly applied load compared to when it is applied gradually is

(a) same

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- (b) twice
- (c) four times
- (d) eight times
- (e) half.

Ans: c

58. A material capable of absorbing large amount of energy before fracture is known as

- (a) ductility
- (b) toughness
- (c) resilience
- (d) shock proof
- (e) plasticity.

Ans: b

59. Coaxing is the method of increasing

- (a) strength by reversible cycling
- (b) corrosion resistance by spraying
- (c) hardness by surface treatment
- (d) fatigue resistance by over-stressing the metal by successively increasing loadings
- (e) creep by head treatment.

Ans:

60. A beam is loaded as cantilever. If the load at the end is increased, the failure will occur

- (a) in the middle
- (b) at the tip below the load
- (c) at the support
- (d) anywhere
- (e) none of the above.

Ans: d

61. A non-yielding support implies that the

- (a) support is frictionless
- (b) support can take any amount of reaction
- (c) support holds member firmly
- (d) slope of the beam at the support is zero
- (e) none of the above.

Ans: d

62. The ratio of elongation in a prismatic bar due to its own weight (W) as compared to another similar bar carrying an additional weight (W) will be

- (a) 1:2
- (b) 1:3
- (c) 1:4
- (d) 1:2.5
- (e) 1: 2.25.

Ans: b

63. In a prismatic member made of two materials so joined that they deform equally under axial stress, the unit stresses in two materials are

- (a) equal
- (b) proportional to their respective moduli of elasticity
- (c) inversely proportional to their moduli of elasticity
- (d) average of the sum of moduli of elas-ticity
- (e) none of the above.

Ans: b

64. In riveted boiler joints, all stresses, shearing, bearing and tensile are based on the

- (a) size of rivet
- (b) size of the drilled or reamed hole
- (c) average of size of rivet and hole
- (d) smaller of the two
- (e) any one of the above.

Ans: b

65. The distance between the centres of the rivets in adjacent rows of zig-zag riveted joint is known as

- (a) pitch
- (b) back pitch
- (c) diagonal pitch
- (d) diametral pitch
- (e) lap.

Ans: c

66. Efficiency of a riveted joint is the ratio of its strength (max. load it can resist without failure) to the strength of the unpunched plate

in

- (a) tension
- (b) compression
- (c) bearing
- (d) any one of the above
- (e) none of the above.

Ans: a

67. When two plates are butt together and riveted with cover plates with two rows of rivets, the joi; it is known as

- (a) lap point
- (b) butt joint
- (c) single riveted single cover butt joint
- (d) double riveted double cover butt joint
- (e) single riveted double cover butt joint.

Ans: d

68. A riveted joint in which every rivet of a row is opposite to other rivet of the outer row, is known as

- (a) chain riveted joint
- (b) diamond riveted joint
- (c) criss-cross riveted joint
- (d) zig-zag riveted joint
- (e) none of the above.

Ans: a

69. A riveted joint in which the number otrivets decrease from innermost to outer most row is called

- (a) chain riveted joint
- (b) diamond riveted joint
- (c) criss-cross riveted joint
- (d) zig-zag riveted joint
- (e) none of the above.

Ans: b

70. If the rivets in adjacent rows are staggered and the outermost row has only one rivet, the arrangement of the rivets is called

- (a) chain riveting
- (b) zig zag riveting
- (c) diamond riveting

- (d) criss-cross riveting
- (e) none of the above.

Ans: c

71. Diamond riveted joint can be adopted in the case of following type of joint

- (a) butt joint
- (b) lap joint
- (c) double riveted lap joints
- (d) all types of joints
- (e) none of the above.

Ans: a

72. Rivets are made of following type of material

- (a) tough
- (b) hard
- (c) resilient
- (d) ductile
- (e) malleable.

Ans: d

73. The weakest section of a diamond riveting is the section which passes through

- (a) the first row
- (b) the second row
- (c) the central row
- (d) one rivet hole of the end row
- (e) none of the above.

Ans: d

74. The deformation of a bar under its own weight compared to the deformation of same body subjected to a direct load equal to weight of the body is

- (a) same
- (b) double
- (c) half
- (d) four times
- (e) one-fourth.

Ans: c

75. The force acting along the circumference will cause stress in the walls in a direction normal to the longitudinal axis of cylinder; this stress is called

- (a) longitudinal stress
- (b) hoop stress
- (c) yeiled stress
- (d) ultimate stress
- (e) none of the above.

Ans: b

76. A boiler shell 200 cm diameter and plate thickness 1.5 cm is subjected to internal pressure of 1.5 MN/m , then the hoop stress will be

- (a) 30 MN/m2
- (b) 50 MN/m2
- (c) 100 MN/m2
- (d) 200 MN/m2
- (e) 300 MN/m2.

Ans: c

77. A cylindrical section having no joint is known as

- (a) jointless section
- (b) homogeneous section
- (c) perfect section
- (d) manufactured section
- (e) seamless section.

Ans: e

78. Longitudinal stress in a thin cylinder is

- (a) equal to the hoop stress
- (b) twice the hoop stress
- (c) half of the hoop stress
- (d) one-fourth of hoop stress
- (e) four times the hoop stress.

Ans: c

79. The safe twisting moment for a compound shaft is equal to the

- (a) maximum calculated value
- (b) minimum calculated value
- (c) mean value

- (d) extreme value
- (e) none of the above.

Ans: b

80. The torsional rigidity of a shaft is expressed by the

- (a) maximum torque it can transmit
- (b) number of cycles it undergoes before failure
- (c) elastic limit up to which it resists torsion, shear and bending stresses
- (d) torque required to produce a twist of one radian per unit length of shaft
- (e) maximum power it can transmit at highest possible-speed.

Ans: d

81. The value of shear stress which is induced in the shaft due to the applied couple varies

- (a) from maximum at the center to zero at the circumference
- (b) from zero at the center to maximum at the circumference
- (c) from maximum at the center to mini-mum at the cricumference
- (d) from minimum at the centro to maxi-mum at the circumference
- (e) none of the above.

Ans: b

82. A key is subjected to side pressure as well at shearing forces. These pressures are called

- (a) bearing stresses
- (b) fatigue stresses
- (c) crushing stresses
- (d) resultant stresses
- (e) none of the above.

Ans: a

83. In a belt drive, the pulley diameter is doubled, the belt tension and pulley width remaining same. The changes required in key will be

- (a) increase key length
- (b) increase key depth
- (c) increase key width
- (d) double all the dimensions
- (e) none of the above.

Ans: c

84. Shear stress induced in a shaft subjected to tension will be

- (a) maximum at periphery and zero at center
- (b) maximum at center
- (c) uniform throughout
- (d) average value in center
- (e) none of the above.

Ans: e

85. If rain is falling in the opposite direction of the movement of a pedestrain, he has to hold his umbrella

- (a) more inclined when moving
- (b) less inclined when moving
- (c) more inclined when standing
- (d) less inclined when standing
- (e) none of the above.

Ans: d

86. A projectile is fired at an angle 9 to the vertical. Its horizontal range will be maximum when 9 is

- (a) 0°
- (b) 30°
- (c) 45°
- (d) 60°
- (e) 90° .

Ans: c

88. Limiting force of friction is the

- (a) tangent of angle between normal-reaction and the resultant of normal reaction and limiting friction
- (b) ratio of limiting friction and normal reaction
- (c) the friction force acting when the body is just about to move
- (d) the friction force acting when the body is in motion
- (e) minimum force of friction.

Ans: c

89. Coulomb friction is the friction between

- (a) bodies having relative motion
- (b) two dry surfaces
- (c) two lubricated surfaces
- (d) solids and liquids

(e) electrically charged particles.

Ans: a

90. Dynamic friction as compared to static friction is

- (a) same
- (b) more
- (c) less
- (d) may be less of more depending on nature of surfaces and velocity
- (e) has no correlation.

Ans: c

92. Tangent of angle of friction is equal to

- (a) kinetic friction
- (b) limiting friction
- (c) angle of repose
- (d) coefficient of friction
- (e) friction force.

Ans: d

93. Kinetic friction is the

- (a) tangent of angle between normal reac-tion and the resultant of normal reac-tion and the limiting friction
- (b) ratio of limiting friction and normal reaction
- (c) the friction force acting when the body is just about to move
- (d) the friction force acting when the body is in motion
- (e) dynamic friction.

Ans: d

95. The effort required to lift a load W on a screw jack with helix angle a and angle of friction <j) is equal to

- (a) Wtan(a + <)>)
- (b) Wtan(a-<)>)
- (c) $W\cos(a + < t>)$
- (d) Wsin(a + <(>)
- (e) W ($\sin a + \cos < j >$).

Ans: a

96. A semi-circular disc rests on a horizontal surface with its top flat surface horizontal and circular portion touching down. The coefficient of friction between semi-cricular disc and horizontal

surface is i. This disc is to be pulled by a horizontal force applied at one edge and it always remains horizontal. When the disc is about to start moving, its top horizontal force will

- (a) remain horizontal
- (b) slant up towards direction of pull
- (c) slant down towards direction of pull
- (d) unpredictable
- (e) none of the above.

Ans: c

97. A particle inside a hollow sphere of radius r, having coefficient of friction -rr can rest upto height of

- (a) r/2
- (b) r/A
- (c) r/%
- (d) 0.134 r
- (e) 3r/8.

Ans: d

98. The algebraic sum of moments of the forces forming couple about any point in their plane is

- (a) equal to the moment of the couple
- (b) constant
- (c) both of above are correct
- (d) both of above are wrong
- (e) none of the above.

Ans: a

99. A single force and a couple acting in the same plane upon a rigid body

- (a) balance each other
- (b) cannot balance each other
- (c) produce moment of a couple
- (d) are equivalent
- (e) none of the above.

Ans: b

100. If three forces acting in one plane upon a rigid body, keep it in equilibrium, then they must either

(a) meet in a point

- (b) be all parallel
- (c) at least two of them must meet
- (d) all the above are correct
- (e) none of the above.

Ans: d

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101. The maximum frictional force which comes into play when a body just begins to slide over another surface is called

- (a) limiting friction
- (b) sliding friction
- (c) rolling friction
- (d) kinematic friction
- (e) dynamic friction.

Ans: a

102. The co-efficient of friction depends upon

- (a) nature of surfaces
- (b), area of contact
- (c) shape of the surfaces
- (d) ail of the above.
- (e) (a) and (b) above.

Ans: a

104. The necessary condition for forces to be in equilibrium is that these should be

- (a) coplanar
- (b) meet at one point;
- (c) both (a) and (b) above
- (d) all be equal
- (e) something else.

Ans: c

105. If three forces acting in different planes can be represented by a triangle, these will be in

- (a) non-equilibrium
- (b) partial equilibrium
- (c) full equilibrium
- (d) unpredictable
- (e) none of the above.

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106. If n = number of members andy = number of joints, then for a perfect frame, n =

- (a) j-2
- (b)2j-l
- (c) 2/-3
- (d)3/-2
- (e) 2/-4.

Ans: c

107. A body moves, from rest with a constant acceleration of 5 m per sec. The distance covered in 5 sec is most nearly

- (a) 38 m
- (b) 62.5 m
- (C) 96 m
- (d) 124 m
- (e) 240 m.

Ans: b

108. A flywheel on a motor goes from rest to 1000 rpm in 6 sec. The number of revolutions made is nearly equal to

- (a) 25
- (b) 50
- (c) 100
- (d) 250
- (e) 500.

Ans: b

109 Which of the following is the locus of a point that moves in such a manner that its distance from a fixed point is equal to its distance from a fixed line multiplied by a constant greater than one

- (a) ellipse
- (b) hyperbola
- (c) parabola
- (d) circle
- (e) none of the above.

Ans: b

111. Which of the following is not the unit of energy

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- (a) kg m
- (b) kcal
- (c) wattr
- (d) watt hours
- (e) kg m x (m/sec)2.

Ans: c

112. A sample of metal weighs 219 gms in air, 180 gms in water, 120 gms in an unknown fluid. Then which is correct statement about density of metal

- (a) density of metal can't be determined
- (b) metal is twice as dense as water
- (c) metal will float in water
- (d) metal is twice as dense as unknown fluid
- (e) none of the above.

Ans: a

113. The C.G. of a solid hemisphere lies on the central radius 3r

- (a) at distance from the plane base 3r
- (b) at distance from the plane base 3r
- (c) at distance from the plane base 3r
- (d) at distance from the plane base or
- (e) at distance from the plane base.

Ans: d

117. The C.G. of a plane lamina will not be at its geometrical centre in the case of a

- (a) right angled triangle
- (b) equilateral triangle
- (c) square
- (d) circle
- (e) rectangle.

Ans: a

119. The C.G. of a right circular solid cone of height h lies at the following distance from the base

- (a) h/2
- (b) J/3
- (c) h/6
- (d) h/4

(e) 3/i/5.

Ans: d

122. The M.I. of hollow circular section about a central axis perpendicular to section as compared to its M.I. about horizontal axis is

- (a) same
- (b) double
- (c) half
- (d) four times
- (e) one fourth.

Ans: b

126. Which of the following is the example of lever of first order

- (a) arm of man
- (b) pair of scissors
- (c) pair of clinical tongs
- (d) all of the above
- (e) none of the above.

Ans: d

127. A pair of smith's tongs is an example of the lever of

- (a) zeioth order
- (b) first order
- (c) second order
- (d) third order
- (e) fourth order.

Ans: c

128. In the lever of third order, load W, effort P and fulcrum F are oriented as follows

- (a) W between P and F
- (b) F between W and P
- (c) P between W and F
- (d) W, P and F all on one side
- (e) none of the above.

Ans: a

129. The angle which an inclined plane makes with the horizontal when a body placed on it is about to move down is known as angle

of

- (a) friction
- (b) limiting friction
- (c) repose
- (d) kinematic friction
- (e) static friction.

Ans: c

148. In actual machines

- (a) mechanical advantage is greater than velocity ratio
- (b) mechanical advantage is equal to velocity ratio
- (c) mechanical advantage is less than velocity ratio
- (d) mechanical advantage is unity
- (e) none of the above.

Ans: c

149. In ideal machines

- (a) mechanical advantage is greater than velocity ratio
- (b) mechanical advantage is equal to velocity ratio
- (c) mechanical advantage is less than velocity ratio
- (d) mechanical advantage is unity
- (e) none of the above.

Ans: b

150. A cable with a uniformly distributed load per horizontal metre run will take the following shape

- (a) straight line
- (b) parabola
- (c) hyperbola
- (d) elliptical
- (e) part of a circle.

Ans: b

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