

Duration: 120 Mins

Total Marks: 152

Q.ID: ITISKILL7792SY

1. What is called if a body changes its position with respect to its surroundings?

- A) Velocity B) Body at rest
C) Speed D) Body at motion

Answer: D) Body at motion

2. What is the area of an equilateral triangle of side 450 mm?

- A) 876.82 cm^2 B) 866.82 cm^2
C) 856.82 cm^2 D) 886.82 cm^2

Answer: A) 876.82 cm^2

3. What is the flow of electrons in any conductor? | ಯಾವುದೇ ಕಂಡಕ್ಟರ್‌ನಲ್ಲಿ ಎಲೆಕ್ಟ್ರಾನ್‌ಗಳ ಹರಿವನ್ನು ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ?

- A) Current | ಕರೆಂಟ್ B) Resistance | ಪ್ರತಿರೋಧ
C) Power | ಶಕ್ತಿ D) Voltage | ವೋಲ್ಟೇಜ್

Answer: A) Current | ಕರೆಂಟ್

4. What is the force with which a body is attracted by the earth towards its centre?

- A) Volume B) Weight
C) Mass D) Density

Answer: B) Weight

5. Which is equal to $\sin\theta$? | ಯಾವುದು $\sin\theta$ ಗೆ ಸಮಾನ?

(A) $\frac{\text{Opposite side}}{\text{Hypotenuse}}$

(B) $\frac{\text{Hypotenuse}}{\text{Opposite side}}$

(C) $\frac{\text{Adjacent side}}{\text{Hypotenuse}}$

(D) $\frac{\text{Hypotenuse}}{\text{Adjacent side}}$

- A) C B) B
C) A D) D

Answer: C) A

6. What is the volume of sphere of radius 7 cm?

- A) 1636 cm^3 B) 1463 cm^3
C) 1436 cm^3 D) 1346 cm^3

Answer: C) 1436 cm^3

7. What is the potential energy, if a body of mass 250 kg is at a height of 30 metre?

- A) 74.57 KJ B) 73.57 KJ
C) 72.57 KJ D) 75.57 KJ

Answer: B) 73.57 KJ

8. What is the x value for $x^2 + 62 = 126$?

- A) 8 B) 6
C) 10 D) 4

Answer: A) 8

9. What is the specific gravity of the metal, if the weighs 6.5 kgf in air and 3.5 kgf in water?

- A) 3.166 B) 2.166
C) 1.166 D) 6.166

Answer: B) 2.166

10. What is the side of a square whose area is 625 mm^2 ? | 625 mm^2 ವಿಸ್ತೀರ್ಣವಿರುವ ಚೌಕದ ಬದಿ ಎಷ್ಟು?

- A) 25 mm B) 30 mm
C) 20 mm D) 15 mm

Answer: A) 25 mm

11. What is the area of a circle of diameter 50 cm?

- A) 1932.5 cm^2 B) 1962.5 cm^2
C) 1942.5 cm^2 D) 1952.5 cm^2

Answer: B) 1962.5 cm^2

12. Which one is non-metal?

- A) Graphite B) Iron
C) Brass D) Mercury

Answer: A) Graphite

13. What is the carbon percentage in high carbon steel?

- A) 0.02% to 0.03% B) 0.50% to 1.50%
C) 0.15% to 0.25% D) 0.25% to 0.50%

Answer: B) 0.50% to 1.50%

14. What percentage of 80 is 20?

- A) 0.25 B) 0.4
C) 0.2 D) 0.8

Answer: A) 0.25

15. What is the formula for potential energy?

- A) $mgh \times 2$ joule B) $\frac{1}{2} mgh$ joule
C) $\frac{2}{3} mgh$ joule D) mgh joule

Answer: D) mgh joule

16. What is the potential energy in a body of mass 10 kg kept on the top of a pole 20 metres height?

- A) 1942 Joules B) 1972 Joules
C) 1962 Joules D) 1952 Joules

Answer: C) 1962 Joules

17. What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

- A) 20.93 cm^2 B) 20.98 cm^2
C) 20.39 cm^2 D) 20.89 cm^2

Answer: A) 20.93 cm^2

18. Which property of metal has its power of returning to its original shape after the applied force is released?

- A) Tenacity B) Plasticity
C) Elasticity D) Malleability

Answer: C) Elasticity

19. What is the speed of a train of 80 metre long train passes a railway station platform of 120 metres length in 20 seconds?

- A) 30 km/hour B) 34 km/hour
C) 32 km/hour D) 36 km/hour

Answer: D) 36 km/hour

20. What is the density (ρ) in g/cm^3 of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm^3 ?

- A) 7.5 g/cm^3 B) 6.6 g/cm^3
C) 7.2 g/cm^3 D) 6.9 g/cm^3

Answer: A) 7.5 g/cm^3

21. Which insulator is used in over head lines?

- A) P.V.C B) Rubber
C) Porcelain D) Mica

Answer: C) Porcelain

22. What is the improper fraction for the given mixed fraction ? $7 \frac{3}{7}$

- A) $\frac{52}{7}$ B) $\frac{28}{7}$
C) $\frac{7}{28}$ D) $\frac{7}{52}$

Answer: A) $\frac{52}{7}$

23. What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

- A) 140 rpm B) 180 rpm

C) 120 rpm

D) 160 rpm

Answer: B) 180 rpm

24. Simplify: $(\frac{3}{4}) + (\frac{2}{5}) - (\frac{5}{20})$

- A) $\frac{3}{10}$ B) $\frac{13}{10}$
C) $\frac{12}{10}$ D) $\frac{9}{10}$

Answer: D) $\frac{9}{10}$

25. What is the value of $\tan 45^\circ$ if $\sin 45^\circ = \frac{1}{\sqrt{2}}$? | $\sin 45^\circ = \frac{1}{\sqrt{2}}$ ಆಗಿದ್ದರೆ $\tan 45^\circ$ ಮೌಲ್ಯ ಎಷ್ಟು ?

(A) $\frac{1}{\sqrt{2}}$

(B) $\frac{\sqrt{3}}{2}$

(C) 1

(D) $\frac{1}{\sqrt{3}}$

A) D

B) B

C) A

D) C

Answer: D) C

26. Which metal contains iron as a major content?

- A) Bronze metal B) Zinc
C) Ferrous metal D) Brass metal

Answer: C) Ferrous metal

27. Which cast iron cannot be welded?

- A) White cast iron B) Nodular cast iron
C) Malleable cast iron D) Grey cast iron

Answer: A) White cast iron

28. Which rubber is used as insulator for power cables and control wires?

- A) Butyl B) Nitrite butadiene
C) Silicon D) Hypalene

Answer: C) Silicon

29. What is the acceleration of an aeroplane taking off from landing field has to run 700 metres if it leaves the ground in 10 seconds from the start?

- A) 8 metre/sec^2 B) 10 metre/sec^2
C) 14 metre/sec^2 D) 12 metre/sec^2

Answer: D) 12 metre/sec^2

30. What is the diagonal of a square plate whose side is 28 cm?

- A) 39.49 cm B) 39.29 cm
C) 39.59 cm D) 39.39 cm

Answer: C) 39.59 cm

31. Divide $(20/31)/(15/62)$

- A) $2(2/3)$ B) $2(4/3)$
C) $2(3/2)$ D) $2(1/3)$

Answer: A) $2(2/3)$

32. What is the capacity of a body to do work is called?

- A) Power B) Force
C) Energy D) Acceleration

Answer: C) Energy

33. What is the volume of mercury in cm^3 , if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm^3 ?

- A) 136 cm^3 B) 13.6 cm^3
C) 10.0 cm^3 D) 10.6 cm^3

Answer: C) 10.0 cm^3

34. Which property of material enables to formation of permanent deformation without fracture?

- A) Plasticity B) Elasticity
C) Brittleness D) Ductility

Answer: A) Plasticity

35. What is the ore of aluminium?

- A) Bauxite B) Lemonite
C) Mallatite D) Hematite

Answer: A) Bauxite

36. What is the boiling point of water? | ನೀರಿನ ಕುದಿಯುವ ಬಿಂದು ಯಾವುದು?

- A) 0°C B) 212°C
C) 100°C D) 32°C

Answer: C) 100°C

37. What is the unit for velocity?

- A) Metre/second B) Metre/second²
C) Metre/minute D) Metre/hour

Answer: A) Metre/second

38. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

- A) 659 Joules B) 639 Joules
C) 649 Joules D) 669 Joules

Answer: D) 669 Joules

39. What is called if a body posses both magnitude and

direction of velocity?

- A) Vector quantity B) Speed
C) Scalar quantity D) Velocity

Answer: A) Vector quantity

40. What is called mass per unit volume of a substances?

- A) Weight B) Mass
C) Volume D) Density

Answer: D) Density

41. What is the carbon percentage in low carbon steel?

- A) 0.25% to 0.50% B) 0.15% to 0.25%
C) 0.50% to 1.50% D) 0.02% to 0.03%

Answer: B) 0.15% to 0.25%

42. What is the formula for finding volume of a hollow cylinder having outer radius 'R' inner radius 'r' and height 'h'?

- A) $\frac{2}{3} \pi (R^2 - r^2) h$ B) $\frac{4}{3} \pi (R^2 - r^2) h$
C) $\frac{\pi}{3} (R^2 - r^2) h$ D) $\pi (R^2 - r^2) h$

Answer: D) $\pi (R^2 - r^2) h$

43. What is the cross sectional area of a circular ring of D = 38 mm d = 32mm?

- A) 350 mm^2 B) 320 mm^2
C) 340 mm^2 D) 330 mm^2

Answer: D) 330 mm^2

44. What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

- A) 0.10 m/sec^2 B) 0.30 m/sec^2
C) 0.40 m/sec^2 D) 0.20 m/sec^2

Answer: B) 0.30 m/sec^2

45. What is called if a body posses only magnitude or size alone?

- A) Vector quantity B) Velocity
C) Speed D) Scalar quantity

Answer: D) Scalar quantity

46. What is the product of 0.003×0.5 ?

- A) 0.0015 B) 0.015
C) 0.15 D) 0.00015

Answer: A) 0.0015

47. How many newtons for 1 kilogram?

- A) 98.1 Newtons B) 0.981 Newtons
C) 981 Newtons D) 9.81 Newtons

Answer: D) 9.81 Newtons

48. How many millimetres are there in 1 inch? | 1 ಇಂಚಿನಲ್ಲಿ ಎಷ್ಟು ಮಿಲಿಮೀಟರ್‌ಗಳಿವೆ?

- A) 25.4 mm B) 24.5 mm
C) 2.45 mm D) 2.54 mm

Answer: A) 25.4 mm

49. What is the volume (V) of mercury in cm³, if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm³?

- A) 73.33 cm³ B) 73.53 cm³
C) 73.23 cm³ D) 73.43 cm³

Answer: B) 73.53 cm³

50. Which metal is widely used for making casting of machinery parts?

- A) Grey cast iron B) White cast iron
C) Malleable cast iron D) Wrought iron

Answer: A) Grey cast iron

51. What is the mass in gram, if a force of 15 dynes acting on a mass m producing an acceleration of 2.5 cm/sec²?

- A) 7 grams B) 8 grams
C) 6 grams D) 9 grams

Answer: C) 6 grams

52. What is called if a body does not change its position with respect to its surroundings?

- A) Body at rest B) Velocity
C) Speed D) Body at motion

Answer: A) Body at rest

53. What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively? | ಉದ್ದ ಮತ್ತು ಅಗಲ ಕ್ರಮವಾಗಿ 10 ಸೆ.ಮೀ ಮತ್ತು 8 ಸೆ.ಮೀ. ಇರುವ ಆಯತದ ವಿಸ್ತೀರ್ಣ ಎಷ್ಟು?

- A) 75 cm² B) 80 cm²
C) 85 cm² D) 90 cm²

Answer: B) 80 cm²

54. What is the name of the property of an insulation that should brake down or puncture on application of high voltage?

- A) Specific resistance B) Non absorption
C) Di-electric strength D) Mechanical strenth

Answer: C) Di-electric strength

55. What are fundamental units?

- A) Length, Pressure, Volume B) Length, Mass, Area
C) Length, Mass, Time D) Length, Mass, Volume

Answer: C) Length, Mass, Time

56. What is the area of a square whose side is 18 cm?

- A) 26 cm² B) 36 cm²
C) 324 cm² D) 72 cm²

Answer: C) 324 cm²

57. What is the volume of a rectangular tank of 30 m length, 20m width and 10m height?

- A) 6100 m³ B) 5900 m³
C) 6200 m³ D) 6000 m³

Answer: D) 6000 m³

58. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

- A) 20 days B) 26 days
C) 24 days D) 22 days

Answer: C) 24 days

59. What is the formula for total surface area of a cylinder?

- A) $2\pi r(h + r)$ B) πrh
C) $2\pi rh$ D) $\pi r(h + r)$

Answer: A) $2\pi r(h + r)$

60. What is the side of a square whose area is 625 mm²?

- A) 30 mm B) 20 mm
C) 15 mm D) 25 mm

Answer: D) 25 mm

61. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

- A) Cu 98% B) Cu 94%
C) Cu 92% D) Cu 96%

Answer: B) Cu 94%

62. A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

- A) Rs 200 B) Rs 220
C) Rs 260 D) Rs 240

Answer: D) Rs 240

63. What is the formula for acceleration?

- A) Metre/minute B) Metre/second²
C) Metre/second D) Metre/hour

Answer: B) Metre/second²

64. Which alloy steel is using for making precious instrument?

- A) Vanadium B) Invar steel
C) Manganese steel D) Silicon steel

Answer: B) Invar steel

65. What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

- A) 8 m/sec B) 6 m/sec
C) 12 m/sec D) 10 m/sec

Answer: A) 8 m/sec

66. What is the acceleration of a car if the speed of the car has increased from 25 km per hour to 40 km per hour in one minute?

- A) 0.69 m/sec² B) 0.59 m/sec²
C) 0.059 m/sec² D) 0.069 m/sec²

Answer: D) 0.069 m/sec²

67. How many watts for 1 horse power in metric system?

- A) 735.5 watts B) 725.5 watts
C) 755.5 watts D) 745.5 watts

Answer: A) 735.5 watts

68. How many watts for 1 horse power in British system?

- A) 756 watts B) 726 watts
C) 746 watts D) 736 watts

Answer: C) 746 watts

69. Simplify: (17.49x5.2)/(6.5)

- A) 13.79 B) 13.89
C) 13.99 D) 13.69

Answer: C) 13.99

70. Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

- A) Toughness B) Ductility
C) Malleability D) Hardness

Answer: D) Hardness

71. Find the total surface area of cube whose side is 25 cm.

- A) 3740 cm² B) 3755 cm²
C) 3750 cm² D) 3745 cm²

Answer: C) 3750 cm²

72. What is the definition of ratio?

- A) Relation of two quantities of the same kind B) Inequality between two ratios
C) Equality between two ratios D) Relation of two quantities of the different kind

Answer: A) Relation of two quantities of the same kind

73. How many millimetres are there in 1 inch?

- A) 2.54 mm B) 25.4 mm
C) 24.5 mm D) 2.45 mm

Answer: B) 25.4 mm

74. Which alloy steel is used to make permanent magnets?

- A) Manganese steel B) Cobalt steel
C) Vanadium steel D) Silicon steel

Answer: B) Cobalt steel

75. What is the rate of change of displacement of a body?

- A) Body at motion B) Velocity
C) Body at rest D) Speed

Answer: B) Velocity

76. What is the length L₂, if total length (L) is 2.75 metre and L₁:L₂ = 2:3?

- A) 1.1 metre B) 1.25 metre
C) 1.65 metre D) 1.75 metre

Answer: C) 1.65 metre

77. What denotes letter □ M□ in MKS system ವ್ಯವಸ್ಥೆಯಲ್ಲಿ □ಎಂ□ ಅಕ್ಷರ ಏನನ್ನು ಸೂಚಿಸುತ್ತದೆ?

- A) Millimeter B) Mile
C) Micron D) Meter

Answer: D) Meter

78. What are fundamental units? | ಮೂಲಭೂತ ಮೂಲಮಾನಗಳು ಯಾವುವು?

- A) Length, Mass, Area | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ವಿಸ್ತೀರ್ಣ B) Length, Pressure, Volume | ಉದ್ದ, ಒತ್ತಡ, ಘನ ಫಲ
C) Length, Mass, Time | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ಸಮಯ D) Length, Mass, Volume | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ಘನ ಫಲ

Answer: C) Length, Mass, Time | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ಸಮಯ

79. Find the total surface area of a cast iron bar whose length, width and height are 20m, 15m and 12m.

- A) 1440 m² B) 1640 m²
C) 1540 m² D) 1340 m²

Answer: A) 1440 m²

80. Which among the following is an insulator?

- A) Aluminium B) Mica
C) Silver D) Copper

Answer: B) Mica

81. Which insulating material is used for making switches?

- A) PVC B) Ebonite
C) Bakelite D) Porcelain

Answer: C) Bakelite

82. What is the block weighs (W) in kg, if volume (V) is 320 cm³ and density 8.9 g/cm³?

- A) 2.848 kg B) 2.948 kg
C) 2.648 kg D) 2.448 kg

Answer: A) 2.848 kg

83. What is called mass per unit volume of a substances? |
ವಸ್ತುವಿನ ಪ್ರತಿ ಯೂನಿಟ್ ಪರಿಮಾಣದ ದ್ರವ್ಯರಾಶಿಗೆ ಏನು ಎಂದು
ಕರೆಯಲಾಗುತ್ತದೆ?

- A) Weight | ತೂಕ B) Density | ಸಾಂದ್ರತೆ
C) Mass | ದ್ರವ್ಯರಾಶಿ D) Volume | ಗಾತ್ರ

Answer: B) Density | ಸಾಂದ್ರತೆ

84. What is the unit of speed?

- A) Metre/hour B) Metre/minute
C) Metre/second² D) Metre/second

Answer: D) Metre/second

85. Which one of the following properties is the mechanical
properties of metal?

- A) Structure B) Corrosion
C) Fusibility D) Ductility

Answer: D) Ductility

86. What denotes letter M in MKS system?

- A) Millimeter B) Micron
C) Meter D) Mile

Answer: C) Meter

87. What is the work done in unit time?

- A) Energy B) Power
C) Acceleration D) Force

Answer: B) Power

88. What is the total surface area of a cylinder having radius 2
metres and height 5 metres?

- A) 90 sq.metre B) 92 sq.metre
C) 86 sq.metre D) 88 sq.metre

Answer: D) 88 sq.metre

89. What is the square root of decimal number 550.37?

- A) 23.46 B) 22.26
C) 21.26 D) 22.46

Answer: A) 23.46

90. What is the ratio of power output to power input?

- A) Energy B) Efficiency
C) Acceleration D) Work

Answer: B) Efficiency

91. What is the density of aluminium?

- A) 2.7 g/cm³ B) 3.7 g/cm³
C) 4.7 g/cm³ D) 5.7 g/cm³

Answer: A) 2.7 g/cm³

92. What is the ratio of 4 kg to 800 grams?

- A) 08:04 B) 02:04
C) 05:01 D) 04:08

Answer: C) 05:01

93. What is the other name of low carbon steel?

- A) Mild steel B) Low alloy steel
C) High alloy steel D) High speed steel

Answer: A) Mild steel

94. What is the formula for kinetic energy?

- A) $(1/2) mv^2$ joule B) $(1/2) mv$ joule
C) $(2/3) mv^2$ joule D) $(2/3) mv$ joule

Answer: A) $(1/2) mv^2$ joule

95. What is the formula for speed?

- A) Change in momentum/Time B) Change in velocity/Time
C) Distance covered/Time D) Distance in definite
direction /Time

Answer: C) Distance covered/Time

96. What is the name of furnace to obtained cast iron?

- A) Cupola B) Steel - Rever battery
C) Mild steel - Blast furnace D) Alloy metal - Electric
furnace

Answer: A) Cupola

97. What is the primeter of scalene. Triangle having sides of
40mm, 20mm and 28mm?

- A) 78 mm B) 88 mm
C) 68 mm D) 98 mm

Answer: B) 88 mm

98. What is termed as the quantity of matter contained in a
body? | ವಸ್ತುವಿನಲ್ಲಿ ಇರುವ ದ್ರವ್ಯದ ಪರಿಮಾಣವನ್ನು ಎಂದು ಏನು
ಕರೆಯಲಾಗುತ್ತದೆ?

- A) Volume | ಗಾತ್ರ B) Density | ಸಾಂದ್ರತೆ
C) Specific gravity | ವಿಶಿಷ್ಟ
ಗುರುತ್ವ D) Mass | ದ್ರವ್ಯರಾಶಿ

Answer: D) Mass | ದ್ರವ್ಯರಾಶಿ

99. Wha is the mass if the density of a body is 7.6
g/cm³ and its volume is 25 cm³?

- A) 200 grams B) 220 grams
C) 210 grams D) 190 grams

Answer: D) 190 grams

100. What is the square root of 529? | 529 ರ ವರ್ಗಮೂಲ ಯಾವುದು?

- A) 43 B) 23
C) 13 D) 33

Answer: B) 23

101. What is the LCM of 12, 18, 6, 36?

- A) 18 B) 42
C) 12 D) 36

Answer: D) 36

102. Which steel is used for making files and cold chisel?

- A) Low carbon steel B) High carbon steel
C) Stainless steel D) Midium carbon steel

Answer: B) High carbon steel

103. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

- A) 6 B) 25
C) 10 D) 15

Answer: A) 6

104. What is known for the temperature at which any solid melts into liquid? | ಯಾವುದೇ ಘನ ದ್ರವಕ್ಕೆ ಕರಗುವ ತಾಪಮಾನಕ್ಕೆ ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ?

- A) Latent heat of vaporisation | ಆವಿಯಾಗುವಿಕೆಯ ಸುಪ್ತ ಶಾಖ
B) Boiling point | ಕುದಿಯುವ ಬಿಂದು
C) Melting point | ಕರಗುವ ಬಿಂದು
D) Latent heat of fusion | ಸುಪ್ತ ಶಾಖ

Answer: C) Melting point | ಕರಗುವ ಬಿಂದು

105. What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?

- A) 86 mm B) 66 cm
C) 56 cm D) 76 cm

Answer: D) 76 cm

106. Which alloy used in electric lamp as filament?

- A) Tungsten B) Silicon
C) Vanadium D) Cobalt

Answer: A) Tungsten

107. What is volume of the cylinder whose radius is 7 cm and height 12 cm?

- A) 1844 c.c B) 1842 c.c
C) 1846 c.c D) 1847 c.c

Answer: D) 1847 c.c

108. What is the ratio of power output to power input? | ವಿದ್ಯುತ್ ಉತ್ಪಾದನೆಯ ವಿದ್ಯುತ್ ಇನ್ಪುಟ್ ಅನುಪಾತ ಎಷ್ಟು?

A) Efficiency

B) Work

C) Energy

D) Acceleration

Answer: A) Efficiency

109. How many watts for 1 horse power in British system? | ಬ್ರಿಟಿಷ್ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ 1 ಕುದುರೆ ಶಕ್ತಿಗಾಗಿ (HP) ಎಷ್ಟು ವ್ಯಾಟ್?

- A) 756 watts B) 746 watts
C) 736 watts D) 726 watts

Answer: B) 746 watts

110. Which furnace is used to get pig iron from iron ore?

- A) Cupola B) Blast furnace
C) Mild steel - Rever battery D) Electric furnace

Answer: B) Blast furnace

111. What is the length of each part is a copper wire of 225 metre long is cut into 900 equal parts?

- A) 0.23 metre B) 0.28 metre
C) 0.25 metre D) 0.29 metre

Answer: C) 0.25 metre

112. What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?

- A) 10 Joules B) 1 Joule
C) 10 dynes D) 1 dyne

Answer: B) 1 Joule

113. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm³?

- A) 19 B) 18.5
C) 8 D) 19.5

Answer: D) 19.5

114. Which property of a metal enables it by which it can be drawn out into wires under tension without rupture?

- A) Malleability B) Brittleness
C) Ductility D) Hardness

Answer: C) Ductility

115. What is the decimal fraction of conversion of 18.5%?

- A) 0.165 B) 0.175
C) 0.185 D) 0.195

Answer: C) 0.185

116. How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

- A) 1768.25 liters B) 1767.25 liters
C) 1769.25 liters D) 1766.25 liters

Answer: D) 1766.25 liters

117. What is the square root of 529?

- A) 23 B) 43
C) 33 D) 12

Answer: A) 23

118. Which is the unit of current? | ಪ್ರವಾಹದ ಮೂಲಮಾನ ಯಾವುದು?

- A) Ohm | ಓಂ B) Ampere | ಆಂಪಿಯರ್
C) Watt | ವ್ಯಾಟ್ D) Volt | ವೋಲ್ಟ್

Answer: B) Ampere | ಆಂಪಿಯರ್

119. What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

- A) 625 Joules B) 635 Joules
C) 630 Joules D) 620 Joules

Answer: A) 625 Joules

120. Convert 0.456 decimal fraction into percentage? | 0.456 ದಶಮಾಂಶ ಭಾಗವನ್ನು ಶೇಕಡಾವಾರು ಆಗಿ ಪರಿವರ್ತಿಸಿ?

- A) 0.0456 B) 45.6%
C) 0.0456% D) 0.456%

Answer: B) 45.6%

121. What is the formula for velocity?

- A) Change in velocity/Time B) Displacement/Time
C) Change of momentum/Time D) Distance covered/Time

Answer: B) Displacement/Time

122. What is the area of an ellipse if the major and minor axes are 5 cm and 3 cm respectively?

- A) 37 cm^2 B) 57 cm^2
C) 27 cm^2 D) 47 cm^2

Answer: D) 47 cm^2

123. Convert 52% into fraction?

- A) (11/25) B) (13/25)
C) (17/25) D) (9/25)

Answer: B) (13/25)

124. What is the name of the metal which do not contain iron?

- A) Insulating metals B) Non-ferrous metals
C) Non-Insulating metals D) Ferrous metals

Answer: B) Non-ferrous metals

125. Which property of a metal possessed by it melts when heat is applied?

- A) Malleability B) Tenacity
C) Conductivity D) Fusibility

Answer: D) Fusibility

126. What is the carbon percentage in medium carbon steel?

- A) 0.25% to 0.5% B) 0.05% to 0.15%
C) 0.5% to 1.5% D) 0.15% to 0.25%

Answer: A) 0.25% to 0.5%

127. What is the HCF of 18, 42, 24?

- A) 18 B) 6
C) 2 D) 24

Answer: B) 6

128. What is the ratio of mechanical advantage to the velocity ratio of a simple machine? | ಸರಳ ಯಂತ್ರದ ಯಾಂತ್ರಿಕ ಲಾಭ ಮತ್ತು ವೇಗ ಅನುಪಾತದ ಅನುಪಾತ ಏನು?

- A) Power | ಶಕ್ತಿ B) Load | ಲೋಡ್
C) Efficiency | ದಕ್ಷತೆ D) Effort | ಪ್ರಯತ್ನ

Answer: C) Efficiency | ದಕ್ಷತೆ

129. How much work done in one hour, if a pump can raise 100 liters of water through a height of 200 meters in one minutes?

- A) $12 \times 10^7 \text{ kg meter}$ B) $12 \times 10^5 \text{ kg meter}$
C) $12 \times 10^6 \text{ kg meter}$ D) $12 \times 10^4 \text{ kg meter}$

Answer: B) $12 \times 10^5 \text{ kg meter}$

130. What is the capacity of a conical tank of radius 2 m and height 5m?

- A) 11 m^3 B) 21 m^3
C) 41 m^3 D) 31 m^3

Answer: B) 21 m^3

131. What is the area of a right angled triangle having a base 10 cm and height 5 cm?

- A) 35 sq.cm B) 30 sq.cm
C) 20 sq.cm D) 25 sq.cm

Answer: D) 25 sq.cm

132. What metals contained in brass alloy?

- A) Copper and tin B) Copper and zinc
C) Copper and lead D) Copper and aluminium

Answer: B) Copper and zinc

133. What is termed as the quantity of matter contained in a body?

- A) Volume B) Density
C) Specific gravity D) Mass

Answer: D) Mass

134. What is the unit of acceleration of an object?

- A) Metre/second^2 B) Metre/minutes^2

C) Metre/second D) Metre/minutes

Answer: A) Metre/second

135. What is the square root of 0.017?

- A) 0.00001 B) 0.000001
C) 0.13 D) 0.001

Answer: C) 0.13

136. Convert decimal 0.000659 to fraction?

- A) (659/100000) B) (659/10000)
C) (659/1000000) D) (659/1000)

Answer: C) (659/1000000)

137. Find the curved surface area of a cylinder 10 cm dia and 20 cm height?

- A) 630 cm^2 B) 620 cm^2
C) 638 cm^2 D) 628 cm^2

Answer: D) 628 cm^2

138. What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

- A) 85 cm^2 B) 75 cm^2
C) 80 cm^2 D) 90 cm^2

Answer: C) 80 cm^2

139. Which metal cannot be forged?

- A) Steel B) Cast iron
C) Mild steel D) Alloy steel

Answer: B) Cast iron

140. What is the area of a (A) semicircle whose dia is 20 cm (d)?

- A) 177.1 cm^2 B) 147.1 cm^2
C) 167.1 cm^2 D) 157.1 cm^2

Answer: D) 157.1 cm^2

141. What is the weight force of a car has a mass of 800 kg?(Take $g = 9.81 \text{ m/sec}^2$)

- A) 7748 Newton B) 7848 Newton
C) 7847 Newton D) 7487 Newton

Answer: B) 7848 Newton

142. What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

- A) Density B) Specific gravity
C) Mass D) Weight

Answer: B) Specific gravity

143. What are the two classifications of system of units? | ಮೂಲಮಾನಗಳ ವ್ಯವಸ್ಥೆಯ ಎರಡು ವರ್ಗೀಕರಣಗಳು ಯಾವುವು?

A) Gravitational and non-gravitational | ಗುರುತ್ವ ಮತ್ತು ಗುರುತ್ವಾಕರ್ಷಣೆಯಿಲ್ಲದ

B) Metric and International | ಮೆಟ್ರಿಕ್ ಮತ್ತು ಅಂತರರಾಷ್ಟ್ರೀಯ

C) British and Metric | ಬ್ರಿಟಿಷ್ ಮತ್ತು ಮೆಟ್ರಿಕ್

D) Fundamental and derived | ಮೂಲಭೂತ ಮತ್ತು ಪಡೆಯಲಾಗಿದೆ

Answer: D) Fundamental and derived | ಮೂಲಭೂತ ಮತ್ತು ಪಡೆಯಲಾಗಿದೆ

144. What maximum height a stone will reach if it is thrown upwords with a velocity of 20 m/sec ? ($g = 10 \text{ m/sec}^2$)

- A) 20 m B) 10 m
C) 40 m D) 30 m

Answer: A) 20 m

145. How many ergs for 1 Joule?

- A) 10^5 ergs B) 10^9 ergs
C) 10^7 ergs D) 10^3 ergs

Answer: C) 10^7 ergs

146. Which is brittle metal?

- A) Cast iron B) Mild steel
C) Alloy steel D) Steel

Answer: A) Cast iron

147. What is the work done, if a force of 250 newtons acted upon a body and the body has been moved through a distance of 15 metres?

- A) 3720 Joules B) 3750 Joules
C) 3740 Joules D) 3730 Joules

Answer: B) 3750 Joules

148. What is the equivalent unit for 1 horse power in metric system?

- A) 77 kg.m/sec B) 76 kg.m/sec
C) 75 kg.m/sec D) 78 kg.m/sec

Answer: C) 75 kg.m/sec

149. What are the two classifications of system of units?

- A) Gravitational and non-gravitational B) British and Metric
C) Metric and International D) Fundamental and derived

Answer: D) Fundamental and derived

150. What is the S.I unit of heat? | ಶಾಖದ ಎಸ್‌ಐ ಮೂಲಮಾನ ಯಾವುದು?

- A) Calorie | ಕ್ಯಾಲೋರಿ B) Centigrade heat unit | ಸೆಂಟಿಗ್ರೇಡ್ ಶಾಖ ಘಟಕ
C) Joule | ಜೌಲ್ D) British thermal unit | ಬ್ರಿಟಿಷ್ ಉಷ್ಣ ಘಟಕ

Answer: C) Joule | ಜೌಲ್

151. How much is 8% of 40 kg?

- A) 2.2 kg
- B) 5.2 kg
- C) 3.2 kg
- D) 4.2 kg

Answer: C) 3.2 kg

152. Convert 0.456 decimal fraction into percentage?

- A) 45.6
- B) 0.000456
- C) 0.456
- D) 0.0456

Answer: A) 45.6