ITI Quiz - 18-Mar-2026 04:46 PM

Q. ID: ITISKILL283892

March 2026 | **Govt ITI Tagaduru** | Answer Key

Duration: 30 Mins | **Total Marks: 413** | **Q.ID: ITISKILL283892**

1. Which is the example for dynamicallly induced Emf?

A) Generator B) Motor bike
C) Car D) Motor

Answer: A) Generator

2. What is called if the length of the solid expands when heated?

A) Linear expansion B) Cubical expansion
C) Superficial expansion D) Area expansion

Answer: A) Linear expansion

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

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

Answer: B) 36

4. Which one is included in machining estimation sheet?

A) Advertisement cost B) Transport cost
C) Raw material cost D) Tax

Answer: C) Raw material cost

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

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

Answer: C) Fusibility

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

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

Answer: D) 3750 cm²

7. What is the difference between the simple and the compound interest amount at 5% per annum for 2 years on a principal of Rs.20000/-?

A) Rs.55 B) Rs.50
C) Rs.5 D) Rs.25

Answer: B) Rs.50

8. What is the name called biggest chord of the circle?

A) Radius B) Diameter
C) Diagonal D) Arc

Answer: B) Diameter

9. What is the name of a booklet, the rates of various terms are indicated?

A) Price catalogue B) Price bunch
C) Price bank D) Price tag

Answer: A) Price catalogue

10. What is the value of x²-y² if (x+y) = 9, (x - y) = 4?

A) 13 B) 36
C) 65 D) 46

Answer: B) 36

11. What is the diameter of the circle, if the circumference is 31.4 cm?

A) 5 cm B) 8.5 cm
C) 8 cm D) 10 cm

Answer: D) 10 cm

12. What is the total labour charges for a particular wiring work completed in 2 days by one electrician and one helper.(Electrician @ ?800/day and helper @ Rs 400/day)

A) Rs. 3000 B) Rs. 2400
C) Rs. 2000 D) Rs. 1400

Answer: B) Rs. 2400

13. Convert 0.456 decimal fraction into percentage?

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

Answer: A) 45.6

14. What is the formula to find selling price (S.P) if there is a loss?

A) ((100)/(100-Loss %))xS.P B) ((100+Profit %)/(100))xC.P
C) ((100-Loss %)/(100))xC.P D) ((100)/(100+Profit %))xS.P

Answer: C) ((100-Loss %)/(100))xC.P

15. What is the use of engineering drawing?

A) For estimation of material and execution of work B) For colourful appearance
C) For increasing the cost D) For reducing the cost

Answer: A) For estimation of material and execution of work

16. What is the area of the circle, if the circumference of the circle is 44cm?

A) 154 cm² B) 129 cm²
C) 128 cm² D) 130 cm²

Answer: A) 154 cm²

17. 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) 32 km/hour B) 36 km/hour
C) 30 km/hour D) 34 km/hour

Answer: B) 36 km/hour

18. How the 'Principal' is denoted in simple interest calculation?

A) 'R' B) 'n'
C) 'I' D) 'P'

Answer: D) 'P'

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

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

Answer: B) Efficiency

20. What is the ratio of ultimate load to area of original cross section?

A) Factor of safety B) Youngs modulus
C) Ultimate stress D) Yield point

Answer: C) Ultimate stress

21. Which is the formula for a^m/ aⁿ

A) a^{m-n} B) a^{m+n}
C) a^{mxn} D) (a^m)ⁿ

Answer: A) a^{m-n}

22. What is the ratio between the distance moved by the effort to the distance moved by the load?

A) Efficiency B) Fulcrum
C) Velocity ratio D) Mechanical advantage

Answer: C) Velocity ratio

23. What is denoted as 'I'?

A) Interest B) Rate
C) Year D) Principal

Answer: A) Interest

24. Which type of levers is bell cranked lever?

A) 1st order lever B) 2nd order lever
C) Curved lever D) 3rd order lever

Answer: C) Curved lever

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

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

Answer: C) Cupola

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

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

Answer: C) 1440 m²

27. What is the radius of the circle, whose circumference is 440 cm?

A) 70 cm B) 72.2 cm
C) 71.5 cm D) 70.5 cm

Answer: A) 70 cm

28. What is the name of the region of a circle between any two point on the circumference?

A) Arc B) Segment
C) Sector D) Chord

Answer: B) Segment

29. At what temperature will Fahrenheit and centigrade thermometers give the same reading?

A) -39 Degree C B) -40 Degree C
C) -41 Degree C D) -38 Degree C

Answer: B) -40 Degree C

30. What is the efficiency of a simple screw jack having velocity ratio is 314.2 and mechanical advantage is 220?

A) 0.7 B) 0.75
C) 0.6 D) 0.65

Answer: A) 0.7

31. What is a hand book?

A) Design book of latest works B) Type of reference work or other collection of instruction
C) Model book of various works D) Dictionary of materials

Answer: B) Type of reference work or other collection of instruction

32. Which symbol is used to express change in length?

A) delta l B) L
C) l D) e

Answer: A) delta l

33. What is the centre of gravity of a right circular cone from its base?

A) h/4 B) h/5
C) h/2 D) h/3

Answer: A) h/4

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

A) Metre/second B) Metre/minutes
C) Metre/second² D) Metre/minutes²

Answer: C) Metre/second²

35. What is the velocity ratio of a wheel and axle if the radii of wheel and axle are 375 mm and 75 mm respectively?

A) 4 B) 5
C) 6 D) 3

Answer: B) 5

36. Which IE rules are to be verified on completion of wiring on any new installation?

A) IE Rules, 1960 B) IE Rules, 1956
C) IE Rules, 1967 D) IE Rules, 1961

Answer: B) IE Rules, 1956

37. What maximum height a stone will reach if it is thrown upwords with a velocity of 20m/sec?(g = 10m/sec²)

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

Answer: B) 20 m

38. Which one of the following is not a property of heat insulating material?

A) Low conductivity B) Ductility
C) Resistance to fire D) Less moisture absorption

Answer: B) Ductility

39. What is the power if an emf of one volt causes a current flow of 1ampere?

A) 1 kilowatt B) 1 watt
C) 1 HP D) 1 Kilowatt hour

Answer: B) 1 watt

40. What is the formula for a^m x aⁿ?

A) a^{mn} B) a^{m+n}
C) n.a^m D) a^{m-n}

Answer: B) a^{m+n}

41. Which state of equilibrium's example is, A cone resting on its base?

A) Un-stable B) Bothe A and B
C) Stable D) Neutral

Answer: C) Stable

42. Which instrument is used to measure temperatures of red hot metals up to 3000 Degree C?

A) Thermoelectric pyrometer B) Alcohol thermometer
C) Radiation pyrometer D) Bimetal thermometer

Answer: C) Radiation pyrometer

43. Which property of a substance is opposing the flow of electric current?

A) Current B) Resistance
C) Voltage D) EMF

Answer: B) Resistance

44. What is the flow of electrons in any conductor?

A) Current B) Resistance
C) Power D) Voltage

Answer: A) Current

45. What is the resistance?
 I = 11.5 Amps
 V = 380 Volts
 R = _____Ohms

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

Answer: B) 33 ohms

46. What is the formula for velocity?

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

Answer: C) Displacement/Time

47. Which instrument is used to measure heat?

A) Pyrometer B) Calorie meter
C) Thermometer D) Barometer

Answer: B) Calorie meter

48. What is the length of arc of a sector whose radius is 3.6 cm and angle is 36 Degree?

A) 2.10 cm B) 21.0 cm
C) 2.26 cm D) 22.6 cm

Answer: C) 2.26 cm

49. What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A) 5 B) 4
C) 10 D) 2.4

Answer: D) 2.4

50. What is the weight force of a car has a mass of 800 kg?(Take g = 9.81m/sec)

A) 7848 Newton B) 7847 Newton

C) 7748 Newton D) 7487 Newton

Answer: A) 7848 Newton

51. Which process produce equilibrium conditions?

A) Annealing and Hardening B) Normalising and Tempering

C) Normalising and Tempering D) Annealing and Normalising

Answer: D) Annealing and Normalising

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

A) 340 mm² B) 320 mm²

C) 350 mm² D) 330 mm²

Answer: D) 330 mm²

53. Which one is non-metal?

A) Brass B) Graphite

C) Iron D) Mercury

Answer: B) Graphite

54. What effort required to lift a load of 150 kg in a wheel and axle, if the velocity ratio is 2.5 and the efficiency of the machine is 75%?

A) 80 kg B) 70 kg

C) 90 kg D) 100 kg

Answer: A) 80 kg

55. What is an over estimate?

A) When an estimate is fell short of the actual estimate B) No work started as per estimate

C) When an estimate perfectly matches the actual estimate D) When an estimate is exceeded to actual estimate

Answer: D) When an estimate is exceeded to actual estimate

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

A) Velocity B) Speed

C) Body at rest D) Body at motion

Answer: D) Body at motion

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

A) 756 watts B) 746 watts

C) 726 watts D) 736 watts

Answer: B) 746 watts

58. What is the maximum temperature that can be measured by mercury thermometer?

A) 400 Degree C B) 100 Degree C

C) 200 Degree C D) 300 Degree C

Answer: D) 300 Degree C

59. What is the product of 0.003 x 0.5?

A) 0.015 B) 0.15

C) 0.00015 D) 0.0015

Answer: D) 0.0015

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

A) 745.5 watts B) 755.5 watts

C) 735.5 watts D) 725.5 watts

Answer: C) 735.5 watts

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

A) Scalar quantity B) Velocity

C) Speed D) Vector quantity

Answer: A) Scalar quantity

62. What is the term used for maximum stress attained by a material before rupture?

A) Tensile stress B) Working stress

C) Compressive stress D) Ultimate stress

Answer: D) Ultimate stress

63. What is the formula for kinetic energy?

A) (1/2) mv joule B) (2/3) mv² joule

C) (1/2) mv² joule D) (2/3) mv joule

Answer: C) (1/2) mv² joule

64. What is the change in length per unit original length per degree rise in temperature is called?

A) Co-efficient of cubical expansion B) Co-efficient of superficial expansion

C) Co-efficient of friction D) Co-efficient of linear expansion

Answer: D) Co-efficient of linear expansion

65. What is the value of ab if (a+b)²=36 (a-b)²=24?

A) 6 B) 3

C) 2 D) 4

Answer: B) 3

66. What is the length of arc of a sector, whose radius is 15 cm and angle is 40 Degree?

A) 9.75 cm B) 10.4 cm

C) 9.8 cm D) 10.60 cm

Answer: B) 10.4 cm

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

A) 13.79 B) 13.69

C) 13.99 D) 13.89

Answer: C) 13.99

68. What is the formula for speed?

A) Change in velocity/Time B) Change in momentum/Time

C) Distance covered/Time D) Distance in definite direction /Time

Answer: C) Distance covered/Time

69. What is the value of 14x+3y+25x+2y?

A) 44xy B) 16x + 28y

C) 39x + 5y D) 17x + 27y

Answer: C) 39x + 5y

70. What is the co-efficient of linear expansion of a rod if it is found to be 100 m long at 20 Degree C and 100.14 m long at 100 Degree C?

A) 1.75 x 10-6 / Degree C B) 1.75 x 10-7 / Degree C

C) 1.75 x 10-4 / Degree C D) 1.75 x 10-5 / Degree C

Answer: D) 1.75 x 10-5 / Degree C

71. How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

A) 2010 watts B) 2000 watts

C) 2020 watts D) 2030 watts

Answer: B) 2000 watts

72. What is the profit amount, if the i - phone cost price is Rs.50000/- and selling price is Rs.70000/-?

A) Rs. 2000/- B) Rs. 50000/-

C) Rs. 20000/- D) Rs. 10000/-

Answer: C) Rs. 20000/-

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

A) Ductility B) Hardness

C) Malleability D) Toughness

Answer: B) Hardness

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

A) 75 cm² B) 80 cm²

C) 85 cm² D) 90 cm²

Answer: B) 80 cm²

75. What is the boiling point of water?

A) 32 Degree C B) 212 Degree C

C) 100 Degree C D) 0 Degree C

Answer: C) 100 Degree C

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

A) Density B) Volume

C) Mass D) Weight

Answer: A) Density

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

A) British and Metric B) Fundamental and derived

C) Gravitational and non-gravitational D) Metric and International

Answer: B) Fundamental and derived

78. What is the estimation of milling cost of a rectangular block size 100 X 80 X60 mm, if cost of the milling is Rs.2/sq.cm?

A) Rs.652/- B) Rs.572/-

C) Rs.960/- D) Rs.752/-

Answer: D) Rs.752/-

79. What is the expanded form of (a+b)²?

A) a² + 2ab - b² B) a² - 2ab + b²

C) a² + 2ab + b² D) (-a² - 2ab + b²)

Answer: C) a² + 2ab + b²

80. What is the ratio between stress and strain?

A) Factor of safety B) Youngs Modulus

C) Yield point D) Poisson's ratio

Answer: B) Youngs Modulus

81. How much quantity of heat is required to raise the temperature of 300 grams of copper (sp.heat 0.092 cal/gram) from 25 Degree C to 75 Degree C in Kcal?

A) 138 Kcal B) 2.07 Kcal

C) 1.38 Kcal D) 207 Kcal

Answer: C) 1.38 Kcal

82. What is the multiplication value of 5a²b x 8a⁵b³?

A) 40a³b² B) 40a⁴b⁷

C) 40a²b³ D) 40a⁷b⁴

Answer: D) 40a⁷b⁴

83. What is the definition of ratio?

A) Equality between two ratios B) Relation of two quantities of the same kind

C) Inequality between two ratios D) Relation of two quantities of the different kind

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

84. Which property of metal has its power of returning to its

original shape after the applied force is released?

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

Answer: A) Elasticity

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

A) 0.20 m/sec²
B) 0.10 m/sec²
C) 0.30 m/sec²
D) 0.40 m/sec²

Answer: C) 0.30 m/sec²

86. What is the value of 1 / a⁻⁵?

A) (-5a)
B) 5a
C) a⁵
D) a⁻⁵

Answer: C) a⁵

87. What is the value of a x a² x a³ x a⁴?

A) a⁷
B) a⁹
C) a¹⁰
D) a⁸

Answer: C) a¹⁰

88. Which refers the temperature?

A) It is a form of energy
B) It tells specifie heat of substance
C) It is measured by calorie meter
D) It tells the state of heat

Answer: D) It tells the state of heat

89. What is the centre of gravity of a semi circle of diameter 12 cm?

A) 2.75 cm
B) 2.24 cm
C) 2.54 cm
D) 3.25 cm

Answer: C) 2.54 cm

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

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

Answer: A) 2(2/3)

91. What is the cost price (C.P) formula if there is a profit?

A) ((100+Profit %)/(100))xC.P
B) ((100-Loss %)/(100))xC.P
C) ((100)/(100+Profit %))xS.P
D) ((100)/(100-Loss %))xS.P

Answer: C) ((100)/(100+Profit %))xS.P

92. What is the circumference of a circle whose diameter is 7 cm?

A) 21 cm
B) 22 cm
C) 25 cm
D) 44 cm

Answer: B) 22 cm

93. What is the total estimation cost for making the component of 8 drilled hole dia 10 mm and 4 Numbers of M6 taps in the plate, if Rs.8/- per drilled holes and Rs.12 per drill and tap?

A) Rs.112
B) Rs.102
C) Rs.110
D) Rs.100

Answer: A) Rs.112

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

A) 31 m³
B) 41 m³
C) 21 m³
D) 11 m³

Answer: C) 21 m³

95. 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) 2.448
D) 2.648 kg

Answer: A) 2.848 kg

96. How much time is allowed normally in soaking zone for a 10mm thick metal piece while hardening?

A) 15 minutes
B) 10 minutes
C) 5 minutes
D) 20 minutes

Answer: C) 5 minutes

97. Where the centre of gravity of a circle lies?

A) Any where on its diameter
B) Any where on its circumference
C) Any where on its radius
D) At its centre

Answer: D) At its centre

98. What is the radius of a circle whose diameter is 44 cm?

A) 23 cm
B) 20 cm
C) 44 cm
D) 22 cm

Answer: D) 22 cm

99. Which is the unit of resistance?

A) Volt
B) Watt
C) Ohm
D) Ampere

Answer: C) Ohm

100. What is the centre of gravity of a semi circle of diameter 12 cm?

A) 2.75 cm
B) 3.25 cm
C) 2.24 cm
D) 2.54 cm

Answer: D) 2.54 cm

101. Which law states that at constant termperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

A) Hooke's law
B) Newton's law
C) Ohm's law
D) Lenz's law

Answer: C) Ohm's law

102. What is the total cost to assemble 10 personal computer systems, spares cost as given for one system: 1 TB hard disc Rs.4500/-, Intel i3 mother board Rs.7000/-, SMPS Rs.2500/-, monitor Rs.6000/-, keyboard Rs.1000/-, other material cost (Switches, USB, Cabl

A) Rs.225000/-
B) Rs.275000/-
C) Rs.250000/-
D) Rs.265000/-

Answer: B) Rs.275000/-

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

A) 1952.5 cm²
B) 1962.5 cm²
C) 1932.5 cm²
D) 1942.5 cm²

Answer: B) 1962.5 cm²

104. What is the value of x if 11x+4=37?

A) 3
B) 4
C) 5
D) 2

Answer: A) 3

105. What is called for the amount of heat required to raise the temperature of unit mass of a substance through 1 Degree C?

A) Sensible heat
B) Latent heat
C) Specific heat
D) Mixing of heat

Answer: C) Specific heat

106. What force will be required to punch a hole of 10 mm dia in a 1 mm thick plate, if the allowable shear stress is 50N/mm²? (Pi = 22/7)

A) 1575 N
B) 1757 N
C) 1577 N
D) 1571.4 N

Answer: D) 1571.4 N

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

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

Answer: A) 1.65 metre

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

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

Answer: D) Grey cast iron

109. What is the youngs modulus if a wire of 2m long, 0.8 mm2 in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

A) 125 kg/mm²
B) 12500 kg/mm²
C) 12.5 kg /mm²
D) 1.25 kg/mm²

Answer: B) 12500 kg/mm²

110. What is a total cost?

A) Advertisement cost only
B) Machining cost only
C) Raw materials cost and machining cost
D) Raw material cost only

Answer: C) Raw materials cost and machining cost

111. What is the boiling point of water in fahrenheit scale?

A) 112 Degree F
B) 100 Degree F
C) 212 Degree F
D) 180 Degree F

Answer: C) 212 Degree F

112. What is the radius of the semicircle, if the circumference of the semicircle is 28.26 cm?

A) 5.49 cm
B) 8.5 cm
C) 8.75 cm
D) 6.49 cm

Answer: A) 5.49 cm

113. Which insulator is used in over head lines?

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

Answer: B) Porcelain

114. What is the value of tan θ if sin θ = 4/5 ?

A) (5/3)
B) (4/3)
C) (3/4)
D) (4/5)

Answer: B) (4/3)

115. 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) 3730 Joules
C) 3750 Joules
D) 3740 Joules

Answer: C) 3750 Joules

116. Which heat treatment process is done to refine the grain structure of the steel?

A) Tempering
B) Hardening
C) Normalising
D) Annealing

Answer: C) Normalising

117. Which among the following is an insulator?

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

Answer: C) Mica

118. Which is equal to sin θ?

A) Opposite Side/Hypotenuse
B) Hypotenuse/Adjacent side
C) Adjacent Side/Hypotenuse
D) Hypotenuse/Opposite side

Answer: A) Opposite Side/Hypotenuse

119. 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) 180 rpm
B) 160 rpm
C) 120 rpm
D) 140 rpm

Answer: A) 180 rpm

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

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

Answer: A) Ductility

121. What is the ratio of force (or) thrust per unit area?

A) Energy
B) Work
C) Power
D) Pressure

Answer: D) Pressure

122. Which state of equilibrium's example is, A cone resting on its base?

A) Neutral
B) Stable
C) Un-stable
D) Bothe A and B

Answer: B) Stable

123. Who prepares the cost of estimation?

A) Operator
B) Estimator
C) Draughts man
D) Quality Inspector

Answer: B) Estimator

124. Which one of the following geometrical shape's centre of gravity lies from its base is 1/3 of its height?

A) Triangle
B) Cone
C) Square
D) Rhombus

Answer: A) Triangle

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

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

Answer: A) High carbon steel

126. What is the selling price if the cost price is Rs.7282/- with a profit of Rs.208?

A) Rs.7490
B) Rs.7074
C) Rs.7290
D) Rs.7698

Answer: A) Rs.7490

127. What is the profit % if the cost price of 16 bolts is equal to the selling price of 12 bolts?

A) 43.33
B) 23.33
C) 33.33
D) 13.33

Answer: C) 33.33

128. Which one is the most reliable estimate?

A) Preliminary estimate
B) Plinth area estimate
C) Detailed estimate
D) Cube rate estimate

Answer: C) Detailed estimate

129. What is the compounded amount, if the principal of Rs.30000/- and interest earned at 7% per annum is Rs.4347?

A) Rs.30347/-
B) Rs.32347/-
C) Rs.34347/-
D) Rs.33347/-

Answer: C) Rs.34347/-

130. What is the name of fixed or supporting point of a lever?

A) Effort
B) Fulcrum
C) Mechanical advantage
D) Load

Answer: B) Fulcrum

131. What is the improper fraction for the given mixed fraction ? 7 x (3/7)

A) "7/52"
B) "28/7"
C) "7/28"
D) (52/7)

Answer: D) (52/7)

132. Which insulating material is used for making switches?

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

Answer: A) Bakelite

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

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

Answer: B) Non-ferrous metals

134. What is the area of the circle if the radius is 10 cm?

A) 3.14 cm²
B) 314 cm²
C) 30.4 cm²
D) 31.4 cm²

Answer: B) 314 cm²

135. What is equal to tan θ?

A) Opposite Side/Hypotenuse
B) Adjacent side/Opposite side

C) Opposite Side/Adjacent Side
D) Adjacent Side/Hypotenuse

Answer: C) Opposite Side/Adjacent Side

136. What is the current?
 R = 50 Ohms
 220 Volts
 I =_____Amps

A) 4.2 Amps
B) 4.3 Amps
C) 4.1 Amps
D) 4.4 Amps

Answer: D) 4.4 Amps

137. What is the ore of aluminium?

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

Answer: D) Bauxite

138. What is the other term of pocket reference in engineering works?

A) Good book
B) New book
C) Hand book
D) Hand tool

Answer: C) Hand book

139. What is the freezing point of water in kelvin scale (K)?

A) 373 Degree K
B) 273 Degree K
C) 303 Degree K
D) 313 Degree K

Answer: B) 273 Degree K

140. What are the various stages of heat treatment?

A) Heating, Cooling and Quenching
B) Heating, Soaking and Quenching
C) Quenching, Cooling and Heating
D) Soaking, Quenching and Cooling

Answer: B) Heating, Soaking and Quenching

141. What is the formula to find Profit %?

A) ((Profit)/(S.P))x100
B) ((S.P-C.P)/(Profit))x100
C) ((C.P)/(Profit))x100
D) ((Profit)/(C.P))x100

Answer: D) ((Profit)/(C.P))x100

142. What is known for the temperature at which any solid melts into liquid?

A) Melting point
B) Latent heat of vaporisation
C) Boiling point
D) Latent heat of fusion

Answer: A) Melting point

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

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

Answer: D) 2.166

144. What is the voltage of the immersion heater?
P = 500 watts
 I = 2.27 Amps
 V = _____Volts

A) 230.3 volts
B) 200.3 volts
C) 210.3 volts
D) 220.3 volts

Answer: D) 220.3 volts

145. Which kind of heat transmission takes places by upward flow?

A) Convection
B) Reflection
C) Conduction
D) Radiation

Answer: A) Convection

146. Simplify: (3/4)+(2/5)-(5/20)

A) (12/10)
B) (3/10)
C) (9/10)
D) (13/10)

Answer: C) (9/10)

147. What is the unit of strain?

A) Kg/cm²
B) No unit
C) Newton/metre²
D) Metre

Answer: B) No unit

148. What is the value of x, if x*(120) = 960?

A) 7
B) 10
C) 6
D) 8

Answer: D) 8

149. What is the term used for the method of calculating various quantities and expenditure on a particular job or process?

A) Specification
B) Plan
C) Estimation
D) Drawing

Answer: C) Estimation

150. Which state of equilibrium's example is A cone resting on its tip?

A) Stable
B) Horizontal
C) Unstable
D) Neutral

Answer: C) Unstable

151. What is the cost price if the product is sold at Rs. 572 with a profit of Rs. 72?

A) Rs. 644
B) Rs. 472
C) Rs. 500
D) Rs. 1000

Answer: C) Rs. 500

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

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

Answer: C) 8 m/sec

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

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

Answer: B) 23.46

154. Which is example for first order lever?

A) Lime squeezer B) A wheel barrow
C) Fire tongs D) A pair of scissors

Answer: D) A pair of scissors

155. What is the centre of gravity of a solid hemisphere from its base?

A) 3r/4 B) 4r/5
C) r/2 D) 3r/8

Answer: D) 3r/8

156. What is the formula for bulk modulus?

A) Volumetric stress/Volumetric strain B) Shear stress/Shear strain
C) Tensile stress/Tensile strain D) Compressive stress/Compressive strain

Answer: A) Volumetric stress/Volumetric strain

157. What is the principal amount deposited, if the maturity proceeds to an amount of Rs.25000/- and interest earned Rs.6000/-?

A) Rs.25000/- B) Rs.31000/-
C) Rs.19000/- D) Rs.20000/-

Answer: C) Rs.19000/-

158. Which order lever is claw hammer?

A) 1st order lever B) Curved lever
C) 3rd order lever D) 2nd order lever

Answer: A) 1st order lever

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

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

Answer: C) Specific gravity

160. What is the power required?
 I = 0.455 Amps
 R = 484 Ohms
 P = ____Watts

A) 98.2 watts B) 99.2 watts
C) 101.2 watts D) 100.2 watts

Answer: D) 100.2 watts

161. Which is very good conductor?

A) Cast iron B) Steel
C) Copper D) Wrought iron

Answer: C) Copper

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

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

Answer: D) Body at rest

163. What is the total cost of painting of a class room including ceiling, if the size of length is 6m, breadth is 5m and height is 4m. (Painting + labour cost Rs.150/- per sq.m)

A) Rs.18700/- B) Rs.16700/-
C) Rs.15000/- D) Rs.17700/-

Answer: D) Rs.17700/-

164. What is the radius of the circle if the angle of sector is 90 Degree and the area of the circle is 196 cm²?

A) 14.85 cm B) 14.95 cm
C) 15 cm D) 15.77 cm

Answer: D) 15.77 cm

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

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

Answer: B) 6000 m³

166. Which one is related to estimation of work?

A) Information table B) Hand book
C) Packing D) Bill of material

Answer: D) Bill of material

167. 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

168. What is called if a body posses both magnitude and direction of velocity?

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

Answer: A) Vector quantity

169. Which one is heat insulator?

A) Thermocole B) Brass
C) Copper D) Aluminium

Answer: A) Thermocole

170. What is the term, for the details of materials, brand

name, grade of quality, rating of current and voltage etc.?

A) Raw materials
B) Specification of materials
C) Price catalogue
D) Drawing

Answer: B) Specification of materials

171. What is the ratio between lateral strain and longitudinal strain?

A) Hooks law
B) Poisson's ratio
C) Young's modulus
D) Bulk modulus

Answer: B) Poisson's ratio

172. What is the name of the structure formed, if a steel is heated for about 723 Degree C?

A) Cementide
B) Austenite
C) Martensite
D) Ferrite

Answer: B) Austenite

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

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

Answer: A) Velocity

174. What is the formula to find Loss %?

A) (CP)/(Lossx100)
B) (Loss+100)/(S.P)
C) (Lossx100)/(C.P)
D) (S.P)/(Loss+100)

Answer: C) (Lossx100)/(C.P)

175. What is the simplified value of (3x + 15) / 5x + 25)

A) (-5/3)
B) (5/3)
C) (3/5)
D) (-3/5)

Answer: C) (3/5)

176. What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

A) 95.8 ohms
B) 97.8 ohms
C) 94.8 ohms
D) 96.8 ohms

Answer: D) 96.8 ohms

177. What is the expanded form of S.P?

A) Special Price
B) Selected Price
C) Super Price
D) Selling Price

Answer: D) Selling Price

178. What is the diameter of the circle, if the area of the circle is 706.5cm²?

A) 30 cm
B) 30.5 cm
C) 29.5 cm
D) 29 cm

Answer: A) 30 cm

179. What is the subtracted value of 3x - 4x² +2y² from 4y²-2x + 8x²?

A) (-2y²-5x + 12x²)
B) 2y²+ 5x -12x²
C) 2y²- 5x + 12x²
D) 2y² - 5x -12x²

Answer: C) 2y²- 5x + 12x²

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

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

Answer: B) Energy

181. Which law states that within elastic limit stress is directly proportional to strain?

A) Newtons law
B) Hooks law
C) Joules law
D) Charles law

Answer: B) Hooks law

182. 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%

183. What is the velocity ratio of a simple machine of a mass 120 kg is lifted to a height of 5 metres by a force of 60 kg moving 15 metre. Calculate velocity ratio?

A) 4
B) 1
C) 2
D) 3

Answer: D) 3

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

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

Answer: D) 1962 Joules

185. What is the area of the sector, whose diameter is 40 mm and angle is 120 Degree?

A) 400.50 mm²
B) 416.6 mm²
C) 415.5 mm²
D) 418.66 mm²

Answer: D) 418.66 mm²

186. Which is a kind of surface hardening process?

A) Nitriding
B) Ferrite
C) Tempering
D) Cementide

Answer: A) Nitriding

187. What is the centre of gravity of a rectangular body?

A) Longer side of rectangle
B) Shorter side of rectangle

C) At the corners
D) At the point of intersection of its diagonals

Answer: D) At the point of intersection of its diagonals

188. What is the formula for (a-b)²?

A) a²- 2ab + b²
B) a² - 2ab - b²
C) a² + 2ab + b²
D) (-a² - 2ab - b²)

Answer: A) a²- 2ab + b²

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

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

Answer: C) 669 Joules

190. Which force acts on rivets?

A) Shear force
B) Bending force
C) Tensile force
D) Compressive force

Answer: A) Shear force

191. What is the S.I unit of heat?

A) Joule
B) British thermal unit
C) Calorie
D) Centigrade heat unit

Answer: A) Joule

192. What is the value of x if (x + 2) / 2 = 19?

A) 33
B) 36
C) 38
D) 35

Answer: B) 36

193. 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) 73.43 cm³
B) 73.33 cm³
C) 73.23 cm³
D) 73.53 cm³

Answer: D) 73.53 cm³

194. What describes the detailed specification for the item of work?

A) Maintenance, Stock, Cost
B) Colour
C) Quality, Quantity, Workmanship, Method of execution
D) Tax, Transport, Overhead expenses

Answer: C) Quality, Quantity, Workmanship, Method of execution

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

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

Answer: B) Ductility

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

A) 167.1 cm²
B) 157.1 cm²
C) 147.1 cm²
D) 177.1 cm²

Answer: B) 157.1 cm²

197. How much load is lifted if an effort of 25 kg is applied to a simple machine having velocity ratio of 4 and efficiency 75%?

A) 65 kg
B) 80 kg
C) 70 kg
D) 75 kg

Answer: D) 75 kg

198. What is the formula for potential energy?

A) 1/2 mgh joule
B) mgh² joule
C) 2/3 mgh joule
D) mgh joule

Answer: D) mgh joule

199. What is the unit of speed?

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

Answer: C) Metre/second

200. Which metal cannot be forged?

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

Answer: A) Cast iron

201. Which law states about electromagnetic induction?

A) Hooke's law
B) Lenz's law
C) Faraday's law
D) Ohm's law

Answer: C) Faraday's law

202. Which alloy used in electric lamp as filament?

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

Answer: B) Tungsten

203. Which one of the following geometrical shapes centre of gravity lies from its base is 1/3 of its height?

A) Triangle
B) Square
C) Rhombus
D) Cone

Answer: A) Triangle

204. What is the centre of gravity of a rectangular body?

A) Shorter side of rectangle
B) At the corners
C) At the point of intersection of its diagonals
D) Longer side of rectangle

Answer: C) At the point of intersection of its diagonals

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

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

Answer: A) 190 grams

206. Which standard schedule of rates to be considered for estimation?

A) Standard schedule of rates of the average of the last 10 years
B) Standard schedule of rates of the current year
C) Standard schedule of rates of the average of last 5 years
D) Standard schedule of rates of the last year

Answer: B) Standard schedule of rates of the current year

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

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

Answer: C) Weight

208. What is the process of heat treatment?

A) The process of heating and bending as per our requirement
B) The process of cooling to measure the dimensions
C) The process of heating and cooling to change the structure and properties
D) The process of heating to change the dimensions

Answer: C) The process of heating and cooling to change the structure and properties

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

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

Answer: C) 25 mm

210. 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) 10 metre/sec²
B) 12 metre/sec²
C) 8 metre/sec²
D) 14 metre/sec²

Answer: B) 12 metre/sec²

211. What is equal to cos θ?

A) Opposite side/Hypotenuse
B) Adjacent Side/Hypotenuse
C) Hypotenuse/Adjacent Side
D) Hypotenuse/Opposite Side

Answer: B) Adjacent Side/Hypotenuse

212. Which is brittle metal?

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

Answer: D) Cast iron

213. What is a profit?

A) Selling price - Cost price
B) Cost price - Selling price
C) Selling price + Cost price
D) Cost price + Selling price

Answer: A) Selling price - Cost price

214. What is the boiling point of mercury?

A) 280 Degree C
B) 767 Degree C
C) 357 Degree C
D) 759 Degree C

Answer: C) 357 Degree C

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

A) 27 cm²
B) 37 cm²
C) 57 cm²
D) 47 cm²

Answer: D) 47 cm²

216. Which is elastic material?

A) Nylon
B) Celluloid
C) Polystyrenes
D) Polycarbonates

Answer: A) Nylon

217. What is the centre of gravity of a solid hemisphere from its base?

A) r/2
B) 3r/8
C) 3r/4
D) 4r/5

Answer: B) 3r/8

218. Which statement is correct according to ohm's law?

A) I = R
B) I = R/V
C) I = 1/V
D) I = V/R

Answer: D) I = V/R

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

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

Answer: A) 6

220. What is the volume of mercury in cm3, if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm3?

A) 13.6 cm³
B) 10.6 cm³
C) 10.0 cm³
D) 136 cm³

Answer: C) 10.0 cm³

221. What is the tensile strain if a force of 3.2 KN is applied to a bar of original length 2800 mm extends the bar by 0.5 mm?

A) 0.0001968 B) 0.0001687
C) 0.0001867 D) 0.0001786

Answer: D) 0.0001786

222. Calculate the amount of heat required to raise the temperature of 85.5 gm of sand from 20 Degree C to 35 Degree C specific heat of sand = 0.1.

A) 125.28 Joules B) 128.25 Joules
C) 128.26 Joules D) 126.28 Joules

Answer: B) 128.25 Joules

223. How many newtons for 1 kilogram?

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

Answer: B) 9.81 Newtons

224. What is the work done in unit time?

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

Answer: D) Power

225. What is the ratio between ultimate stress to working stress?

A) Modulus of rigidity B) Young's modulus
C) Bulk modulus D) Factor of safety

Answer: D) Factor of safety

226. What is term used for 2 x linear expansion?

A) Co-efficient of cubical expansion B) Co-efficient of superficial expansion
C) Co-efficient of linear expansion D) Co-efficient of friction

Answer: B) Co-efficient of superficial expansion

227. What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

A) 9.8 watts B) 9.6 watts
C) 9.2 watts D) 9.4 watts

Answer: B) 9.6 watts

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

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

Answer: D) 73.57 KJ

229. What is the mechanical advantage, if a load of 1000 kg is lifted by a simple machine and effort applied is 250 kg?

A) 6 B) 3
C) 8 D) 4

Answer: D) 4

230. What is the value of (6³) / ((-3)³) ?

A) (-8) B) (-27)
C) 27 D) 8

Answer: A) (-8)

231. What percentage of 80 is 20?

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

Answer: C) 0.25

232. What is the height of the wall where the ladder touches the wall if the ladder is 2.5 m long makes an angle of 60 Degree with the ground?

A) 4.13 m B) 4.23 m
C) 4.43 m D) 2.165 m

Answer: D) 2.165 m

233. What is the centre of gravity of a sphere?

A) At the diameter B) At the centre
C) On the circumference D) At the radius

Answer: B) At the centre

234. What is the length of arc of a sector, whose perimeter is 64.8cm and radius is 12.4 cm?

A) 42 cm B) 45 cm
C) 40 cm D) 40.8 cm

Answer: C) 40 cm

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

A) Nitrite butadiene B) Silicon
C) Butyl D) Hypalone

Answer: B) Silicon

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

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

Answer: A) Plasticity

237. What is the height of the building if a ladder at 45 Degree touches the building placed 16 m from the base of the building?

A) 17 m B) 16 m
C) 15 m D) 18 m

Answer: B) 16 m

238. Which is the example for statically induced emf?

A) Transformer B) Motor
C) Refrigerator D) Generator

Answer: A) Transformer

239. Which metal contains iron as a major content?

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

Answer: C) Ferrous metal

240. Which is thermo plastic material?

A) Butyl rubber B) Nylon
C) Vinyl polymers D) Neoprene

Answer: C) Vinyl polymers

241. What denotes letter M in MKS system?

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

Answer: B) Meter

242. What is the specific heat of the material if we require 510 calories to raise the temperature of 170 gm of material from 50 Degree C to 80 Degree C?

A) 0.1 B) 1.11
C) 0.01 D) 1.1

Answer: A) 0.1

243. What is the name of the point at which all the weight of the body concentrated?

A) Centroid B) Centre of gravity
C) Initial point D) Central point

Answer: B) Centre of gravity

244. How much watt second in 1 watt hour?

A) 3600 watt sec B) 2000 watt sec
C) 4000 watt sec D) 1000 watt sec

Answer: A) 3600 watt sec

245. What is the area of the circle, whose diameter is 50 cm?

A) 1960 cm² B) 1900 cm²
C) 1962.5 cm² D) 1950 cm²

Answer: C) 1962.5 cm²

246. What is the value of (a⁵)⁷?

A) a³⁵ B) a²²
C) a1² D) a²1

Answer: A) a³⁵

247. What is the value of x if 13+x =20?

A) 13 B) 9
C) 7 D) 8

Answer: C) 7

248. Which cast iron cannot be welded?

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

Answer: D) White cast iron

249. What is the total cost of Air-conditioners installed in a college, 40 class room-each 1 Air-conditioner, Computer lab 5 Air- conditioners and conference hall 5 Air-conditioners (Cost of one air conditioner Rs.30000/- including installation)?

A) Rs.10 lakhs B) Rs. 12 lakhs
C) Rs. 15 lakhs D) Rs. 20 lakhs

Answer: C) Rs. 15 lakhs

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

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

Answer: D) 625 Joules

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

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

Answer: C) 39.59 cm

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

A) 856.82 cm² B) 866.82 cm²
C) 876.82 cm² D) 886.82 cm²

Answer: C) 876.82 cm²

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

A) 20.93 cm² B) 20.98 cm²
C) 20.39 cm² D) 20.89 cm²

Answer: A) 20.93 cm²

254. What is the value of 'X' if x - y = 6 and x + y = 8?

A) 7 B) 14
C) 6 D) 5

Answer: A) 7

255. What is the value for specific heat of water

A) 3 B) 1
C) 2 D) 4

Answer: B) 1

256. What is the quantity of heat required to raise the temperature of 1 gram of water through 1 Degree Centigrade is called?

A) Specific heat B) British thermal unit

C) Centigrade heat unit D) Colorie

Answer: D) Colorie

257. How many ergs for 1 Joule?

A) 10^5 ergs B) 10^3 ergs

C) 10^7 ergs D) 10^9 ergs

Answer: C) 10^7 ergs

258. Which is the expansion of a³ + b³?

A) a³ + b³ + 3ab (a+b) B) (a+b) (a² + b² - ab)

C) (a-b) (a² + b² - ab) D) a³ - b³ + 3ab (a-b)

Answer: B) (a+b) (a² + b² - ab)

259. How much strain is developed in an iron rod of 1 metre length gets elongated by 1 cm, if a force of 100 kg is applied at one end?

A) 0.1 B) 0.01

C) 0.001 D) 0.0001

Answer: B) 0.01

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

A) 2 Pi rh B) 2 Pi r (h + r)

C) Pi r (h + r) D) Pi rh

Answer: B) 2 Pi r (h + r)

261. What is the tensile stress if a square rod of 10 mm side is tested for a tensile load of 1000 kg?

A) 100 kg/mm² B) 1 kg/mm²

C) 10 kg /mm² D) 1000 kg/mm²

Answer: C) 10 kg /mm²

262. What does EMF stands for?

A) Electro Motive Force B) Electronic Magnetic Force

C) Electromated Force D) Electro Magnetic Force

Answer: A) Electro Motive Force

263. What is the angle of elevation of the top of a light house of 15 m height seen at a point 15 m away from the base?

A) 60 Degree B) 30 Degree

C) 90 Degree D) 45 Degree

Answer: D) 45 Degree

264. Which is equal to electric power?

A) IRA B) R²I watts

C) RI D) I²R watts

Answer: D) I²R watts

265. What is the unit of co-efficient of linear expansion?

A) Number / Degree C / mm length B) Number / Degree C

C) Number / Degree C / meter length D) Number / Degree C / cm length

Answer: B) Number / Degree C

266. What is the simple interest for the principal amount of Rs.100000 at 10% per annum for 1 year period?

A) Rs.50000/- B) Rs.1000/-

C) Rs.5000/- D) Rs.10000/-

Answer: D) Rs.10000/-

267. What is the unit of intensity of magnetic field?

A) Hertz B) wb/m

C) m/wb D) Coloumb

Answer: B) wb/m

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

A) 92 sq.metre B) 88 sq.metre

C) 90 sq.metre D) 86 sq.metre

Answer: B) 88 sq.metre

269. What is a under estimate?

A) An estimate is fell short of the actual estimate B) An estimate is exceeded the actual estimate

C) No work started as per estimate D) An estimate perfectly matches with actual

Answer: A) An estimate is fell short of the actual estimate

270. How the years is denoted in simple interest calculations?

A) I B) P

C) r D) n

Answer: D) n

271. What is the unit for velocity?

A) Metre/hour B) Metre/second

C) Metre/second² D) Metre/minute

Answer: B) Metre/second

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

A) 1847 c.c B) 1844 c.c

C) 1846 c.c D) 1842 c.c

Answer: A) 1847 c.c

273. Which of the impurity in cast iron makes it hard and brittle?

A) Silicon B) Manganese

C) Phosphorus D) Sulphur

Answer: D) Sulphur

274. Which is mineral insulator

A) Mica B) Quartz

C) Porcelain D) Glass

Answer: A) Mica

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

A) 1767.25 liters B) 1769.25 liters

C) 1766.25 liters D) 1768.25 liters

Answer: C) 1766.25 liters

276. What is the safe stress if the ultimate stress of a material is 35 kg/mm² and factor of safety is 5?

A) 0.143 B) 0.7

C) 1.43 D) 7

Answer: D) 7

277. What is the area of the sector, if the diameter is 12 cm and the angle is 60 Degree?

A) 19.00 cm² B) 18.84 cm²

C) 17.75 cm² D) 18.0 cm²

Answer: B) 18.84 cm²

278. 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

279. How much heat is absorbed by a copper ingot weighing 400 Kg is heated from 40 Degree C to 72 Degree C for the purpose of forging? (sp.heat of copper is 0.09)

A) 1215 Kcal B) 1251 Kcal

C) 1521 Kcal D) 1152 Kcal

Answer: D) 1152 Kcal

280. What is the value of 12x³y² / 4x²y?

A) 8xy B) (-3xy)

C) 16xy D) 3xy

Answer: D) 3xy

281. What are the various types of heat treatment processes?

A) Normalising, Heating, Cooling and Painting B) Tempering, Cooling, Packing and Solling

C) Hardening, Soaking, Painting and Packing D) Annealing, Normalising, Hardening and Tempering

Answer: D) Annealing, Normalising, Hardening and Tempering

282. What metals contained in brass alloy?

A) Copper and aluminium B) Copper and tin

C) Copper and lead D) Copper and zinc

Answer: D) Copper and zinc

283. 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 x 104 kg meter B) 12 x 106 kg meter

C) 12 x 107 kg meter D) 12 x 105 kg meter

Answer: D) 12 x 105 kg meter

284. What is the formula for acceleration?

A) Metre/minute B) Metre/hour

C) Metre/second D) Metre/second²

Answer: D) Metre/second²

285. What is the formual for induced emf?

A) B²L sinq volts B) BLV sinq volts

C) BL sinq volts D) B²V sinq volts

Answer: B) BLV sinq volts

286. Which insulating material is most widely used in refrigerators?

A) Polyurethane B) Cork sheet

C) Thermocole D) Glass wool

Answer: A) Polyurethane

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

A) 0.25% to 0.50% B) 0.02% to 0.03%

C) 0.15% to 0.25% D) 0.50% to 1.50%

Answer: C) 0.15% to 0.25%

288. 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) 0.59 m/sec² B) 0.059 m/sec²

C) 0.69 m/sec² D) 0.069 m/sec²

Answer: D) 0.069 m/sec²

289. Which is equal to (a+b)²-(a-b)²

A) 4ab B) 5ab

C) 2ab D) 3ab

Answer: A) 4ab

290. What is the length of arc of the sector whose radius is 15 cm and the intended angle is 30 Degree?

A) 7.25 cm
B) 7.85 cm
C) 6.85 cm
D) 6.75 cm

Answer: B) 7.85 cm

291. Which one is the radiation method of heat transmission?

A) An iron rod is heated with one of its end and heat transmitted to other end
B) The heat from sun travels through the space
C) Cold water goes to the bottom from top while on heating the water
D) On heating gases, heat transmitted to surroundings

Answer: B) The heat from sun travels through the space

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

A) 630 cm²
B) 638 cm²
C) 620 cm²
D) 628 cm²

Answer: D) 628 cm²

293. What is the melting point of aluminium?

A) 680 Degree C
B) 660 Degree C
C) 670 Degree C
D) 620 Degree C

Answer: B) 660 Degree C

294. What is the total wattage in a room if 2 tube lights of 50W rating, 2 fans of 80W rating, 2 numbers of light points of 60W rating, one fan point of 60W rating and one 3 pin socket of 100W rating?

A) 640 W
B) 340 W
C) 540 W
D) 440 W

Answer: C) 540 W

295. Which hand book referred by machine engineer?

A) Oxford Dictionary
B) Mark standard
C) Parry's cheorikal
D) CRC

Answer: B) Mark standard

296. What is the centre of gravity of a right circular cone from its base?

A) h/3
B) h/4
C) h/2
D) h/5

Answer: B) h/4

297. What is the compound interest on a principal of Rs.25000/- after 3 years at the rate of 12% per annum?

A) Rs.10123.20
B) Rs. 9000
C) Rs.10483.20
D) Rs.9720

Answer: A) Rs.10123.20

298. What is the melting point of mercury?

A) -38.72 Degree C
B) -209 Degree C
C) -7.1 Degree C
D) -357 Degree C

Answer: A) -38.72 Degree C

299. What is the value of x, if 3 (2x - 4) = -4x + 28 ?

A) 8
B) 4
C) 12
D) 6

Answer: B) 4

300. What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

A) Blue
B) Brown
C) Pale
D) Purple

Answer: B) Brown

301. What is the diameter of the semicircle, if the circumference of the semicircle is 21.98 cm?

A) 8.55 cm
B) 7 cm
C) 7.55 cm
D) 8 cm

Answer: A) 8.55 cm

302. What are the three consecutive numbers if there sum is 42?

A) 13,14,15
B) 11,12,13
C) 14,15,16
D) 12,13,14

Answer: A) 13,14,15

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

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

Answer: C) 75 kg.m/sec

304. How many millimetres are there in 1 inch?

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

Answer: D) 25.4 mm

305. Convert - 273 Degree C (Centigrade) into kelvin scale?

A) 3 Degree K
B) 0 Degree K
C) 1 Degree K
D) 2 Degree K

Answer: B) 0 Degree K

306. What is the relative permittivity of rubber?

A) Between 12 and 14
B) Between 2 and 3
C) Between 8 and 10
D) Between 5 and 6

Answer: B) Between 2 and 3

307. What is the square root of 529?

A) 23
B) 43

C) 12 D) 33

Answer: A) 23

308. Which machine converts mechanical energy into electrical energy?

A) Iron box B) Generator
C) Heater D) Battery

Answer: B) Generator

309. Which process steel is heated in a carbonaceous atmosphere for the penetration of carbon?

A) Case hardening B) Induction hardening
C) Carburising D) Nitriding

Answer: C) Carburising

310. What is term called for 3 x linear expansion?

A) Co-efficient of cubical expansion B) Co-efficient of superficial expansion
C) Co-efficient of linear expansion D) Co-efficient of friction

Answer: A) Co-efficient of cubical expansion

311. What is the square root of 0.017?

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

Answer: B) 0.13

312. What is called for the materials that restricts heat flow by radiation, conduction and convection?

A) Insulators B) Ferrous
C) Non-ferrous D) Conductors

Answer: A) Insulators

313. Which one is a poor heat insulator?

A) Rubber B) Saw dust
C) Cork D) Glass

Answer: D) Glass

314. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

A) 1.2 W B) 10 W
C) 12 W D) 3 W

Answer: C) 12 W

315. Which specification is other than general specification?

A) Main specification B) Bulk specification
C) Detailed specification D) Brief specification

Answer: C) Detailed specification

316. What is the name of heat treatment process done to relieve strain and stress?

A) Annealing B) Hardening
C) Tempering D) Normalising

Answer: A) Annealing

317. Which is the unit electrical power?

A) Watts B) Ohms
C) Ampere D) Volts

Answer: A) Watts

318. What is the weight of a rectangular block of a cost iron of 250cm X 20cm X 8cm (density of cast iron is 7.8 gm/cm³)?

A) 525 kg B) 410 kg
C) 312 kg D) 372 kg

Answer: C) 312 kg

319. Which is the suitable nitriding process for all alloyed and unalloyed steels?

A) Gas nitriding B) Nitriding in salt-bath
C) Nitriding in Quenching tank D) Silver nitriding

Answer: B) Nitriding in salt-bath

320. What is the value of adding (5x+2y), (4x - 7z) and (15z - 3y)?

A) 9x + y - 8z B) x - 9y + 8z
C) 9x - y + 8z D) x + 9y + 8z

Answer: C) 9x - y + 8z

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

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

Answer: B) 0.185

322. What is the purpose of tempering a steel?

A) To remove the ductility B) To reduce the brittleness
C) To increase the hardness D) To increase the brittleness

Answer: B) To reduce the brittleness

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

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

Answer: C) 1 Joule

324. What is the total construction cost of a house construction area of 3000 sq.ft. (cost of construction Rs.2000/- per sq.ft including material and labour)?

A) Rs.60,00,000 B) Rs.30,000,000
C) Rs.6,000,000 D) Rs.6,00,000

Answer: A) Rs.60,00,000

325. Which affects the centre of gravity of the object

A) Mass
B) Weight
C) Density
D) Shape

Answer: A) Mass

326. What is the ratio of shear stress to shear strain?

A) Yield point
B) Modulus of rigidity
C) Modulus of elasticity
D) Bulk modulus

Answer: B) Modulus of rigidity

327. What is the area of the semicircle, if the diameter is 14 cm?

A) 70 cm²
B) 75.06 cm²
C) 76.93 cm²
D) 86.93 cm²

Answer: C) 76.93 cm²

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

A) 4/3 Pi (R² - r²)h
B) Pi/3 (R² - r²) h
C) Pi (R² - r²)h
D) 2/3 Pi (R² - r²) h

Answer: C) Pi (R² - r²)h

329. What is the density of aluminium?

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

Answer: D) 2.7 g/cm³

330. Which is expanded form of a³-b³?

A) (a-b) (a² - b²+ ab)
B) (a+b) (a² - b²- ab)
C) (a-b) (a² - b² - ab)
D) (a-b) (a² + b² + ab)

Answer: D) (a-b) (a² + b² + ab)

331. 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) Mechanical strenth
D) Di-electric strength

Answer: D) Di-electric strength

332. What is discount?

A) Selling price is greater than Cost price
B) Selling price is less than Cost price
C) Selling price + discount
D) The reduction given to the selling price of a product

Answer: D) The reduction given to the selling price of a product

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

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

Answer: D) 76 cm

334. Which type heat is the heat absorbed or given off by a substance without changing its physical state?

A) Latent heat of steam
B) Latent heat
C) Specific heat
D) Sensible heat

Answer: D) Sensible heat

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

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

Answer: B) 6

336. Which state of equilibrium's example is A cone resting on its tip?

A) Unstable
B) Horizontal
C) Stable
D) Neutral

Answer: A) Unstable

337. Convert 45 Degree C (Centigrade) into Degree F (Fahrenheit)

A) 113 Degree F
B) 112 Degree F
C) 110 Degree F
D) 111 Degree F

Answer: A) 113 Degree F

338. How many degrees is equal to one radian?

A) (Pi)/(180)
B) (180)/(Pi)
C) (360)/(Pi)
D) (Pi)/(360)

Answer: B) (180)/(Pi)

339. Convert decimal 0.000659 to fraction?

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

Answer: D) (659/1000000)

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

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

Answer: C) 24 days

341. What is the SI unit of pressure?

A) Joule
B) Newton
C) Pascal
D) Bar

Answer: C) Pascal

342. How much quantity of heat is required?
 m = 120 litres <br> t1 = 20 Degree C <br> t2 = 85 Degree C
 S = 4.2
 Q = _____ KJ

A) 32780 KJ
B) 32750 KJ
C) 32760 KJ
D) 32770 KJ

Answer: C) 32760 KJ

343. Where the centre of gravity of a circle lies?

A) Any where on its diameter
B) Any where on its circumference
C) Any where on its radius
D) At its centre

Answer: D) At its centre

344. What is the value of any number raised to the power of 0?

A) 0
B) Alpha (?)
C) (-1)
D) 1

Answer: D) 1

345. What is the name of the heat treatment process, where the metal is heated and quenched in water or oil?

A) Normalising and Tempering
B) Tempering
C) Annealing
D) Hardening

Answer: D) Hardening

346. What is the value of 625⁰?

A) 0
B) 525
C) 1
D) 25

Answer: C) 1

347. Which one is the ratio of stress?

A) Load and area
B) Load and direction
C) Load and diameter
D) Load and time

Answer: A) Load and area

348. What is the value of a²+b² if a+b=9 and ab = 20?

A) 41
B) 121
C) (-41)
D) (-121)

Answer: A) 41

349. What is the current Flow in the bulb?
 P = 550 watts
 R = 22 Ohms
 I = _____Amps

A) 4 Amps
B) 2 Amps
C) 3 Amps
D) 5 Amps

Answer: D) 5 Amps

350. Which affects the centre of gravity of the object?

A) Density
B) Shape
C) Mass
D) Weight

Answer: C) Mass

351. What is the x value for x² + 62 = 126?

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

Answer: D) 8

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

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

Answer: C) Blast furnace

353. What is the selling price, if the profit is 5% for a computer table bought at Rs.1150/- with Rs.50/- as a transport charge?

A) 1620
B) 1060
C) 1260
D) 1160

Answer: C) 1260

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

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

Answer: B) Cu 94%

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

A) 1636 cm³
B) 1346 cm³
C) 1463 cm³
D) 1436 cm³

Answer: D) 1436 cm³

356. Which is same in series connection of resistors in a circuit?

A) Current
B) Voltage
C) Resistance
D) Power

Answer: A) Current

357. What is the diameter of the circle, if the area of the circle is 78.5cm²?

A) 5.5 cm
B) 5 cm
C) 10 cm
D) 15 cm

Answer: C) 10 cm

358. What is the weight of the iron ball has volume of 250 cc and density 7.5 gm/cc?

A) 1975 gram
B) 1785 gram
C) 1750 gram
D) 1875 gram

Answer: D) 1875 gram

359. What percentage of water absorbed by a good building stone?

A) Less than 8%
B) Less than 20%

C) Less than 5% D) Less than 10%

Answer: C) Less than 5%

360. What is the other term used for reference table?

A) Dictionary B) Biography

C) Information Table D) Bibliography

Answer: C) Information Table

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

A) Specific gravity B) Density

C) Volume D) Mass

Answer: D) Mass

362. What is the boiling point of aluminium?

A) 1897 Degree C B) 2469 Degree C

C) 660 Degree C D) 2519 Degree C

Answer: D) 2519 Degree C

363. What is the voltage?
 R = 250 Ohms
 I = 0.44 Amps
 V = _____Volts

A) 110 Volts B) 108 Volts

C) 105 Volts D) 100 Volts

Answer: A) 110 Volts

364. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A) 11 ohms B) 7 ohm

C) 1/17 ohms D) 17 ohms

Answer: D) 17 ohms

365. Which is equal to (a^m)ⁿ?

A) a^{m-n} B) a^{m+n}

C) a^{m/n} D) a^{mn}

Answer: D) a^{mn}

366. What is the equivalent pascal value for 1 bar?

A) 109 pascal B) 103 pascal

C) 107 pascal D) 105 pascal

Answer: D) 105 pascal

367. What is the distance of the load from the fulcrum called?

A) Effort B) Power arm

C) Effort arm D) Load arm

Answer: D) Load arm

368. What is the minimum permissible size of aluminium wire used in estimation?

A) 1.5 sq.mm B) 3.5 sq.mm

C) 2.5 sq.mm D) 5 sq.mm

Answer: A) 1.5 sq.mm

369. 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 240

C) Rs 220 D) Rs 260

Answer: B) Rs 240

370. What is the centre of gravity of a sphere?

A) At the diameter B) On the circumference

C) At the centre D) At the radius

Answer: C) At the centre

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

A) Manganese steel B) Vanadium steel

C) Cobalt steel D) Silicon steel

Answer: C) Cobalt steel

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

A) Silicon steel B) Manganese steel

C) Invar steel D) Vanadium

Answer: C) Invar steel

373. How many hours will take for a 100 watts bulb to consume 1 kwh energy?
 W = 1 Kwh
 P = 100 Watts <br> t = _____Hours

A) 18 hours B) 24 hours

C) 10 hours D) 12 hours

Answer: C) 10 hours

374. What is the value of 5x⁴ / 5x³ ?

A) 5x⁴/³ B) 5x²

C) x D) 5x

Answer: C) x

375. What is the ratio between the change in dimension to its original dimension of the substance?

A) Stress B) Factor of safety

C) Poisson's ratio D) Strain

Answer: D) Strain

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

A) 02:04 B) 05:01

C) 08:04 D) 04:08

Answer: B) 05:01

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

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

Answer: A) 25 sq.cm

378. Which is example for second order lever?

A) Human forearm B) A pair of scissors
C) Common balance D) Bottle opener

Answer: D) Bottle opener

379. What is the interest earned, if the principal is for Rs.12500/- maturity becomes to a amount of Rs.17500/-?

A) Rs.30000 B) Rs.5000
C) Rs.25000 D) Rs.5500

Answer: B) Rs.5000

380. What cables are used for 132KV lines?

A) High tension B) Extra high tension
C) Super tension D) Extra super voltage

Answer: D) Extra super voltage

381. What is the area of a circular surface if the radius is 14 cm?

A) 614.5 cm² B) 612.25 cm²
C) 612.44 cm² D) 615.44 cm²

Answer: D) 615.44 cm²

382. What is the term, if an article is purchased?

A) Discount price B) Cost price
C) Margin price D) Selling price

Answer: B) Cost price

383. What are fundamental units?

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

Answer: B) Length, Mass, Time

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

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

Answer: A) 0.25% to 0.5%

385. What is the ratio of change in length to original length?

A) Linear strain B) Lateral strain
C) Poisson's ratio D) Volumetric strain

Answer: A) Linear strain

386. 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) 0.29 metre
C) 0.25 metre D) 0.28 metre

Answer: C) 0.25 metre

387. Which authority publishes schedule of rates?

A) Corporate B) Government department
C) Partnership firm D) Individual

Answer: B) Government department

388. Which type of heat transmission takes place through physical contact?

A) Conduction B) Radiation
C) Reflection D) Convection

Answer: A) Conduction

389. How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

A) 400 volts B) 390 volts
C) 405 volts D) 395 volts

Answer: A) 400 volts

390. What is the maximum percentage of stretch of its original length is allowable for elastic materials?

A) 300% B) 100%
C) 400% D) 200%

Answer: A) 300%

391. Which is example for third order lever?

A) Common balance B) Forceps
C) A pair of scissors D) Lime squeezer

Answer: B) Forceps

392. How the profit / gain is expressed?

A) Rs. B) $
C) % D) *

Answer: C) %

393. What is the main factor to be considered while preparing a detailed estimate?

A) Brand of the materials B) Location of material
C) Quantity, availability and transportation of materials D) Shape of material

Answer: C) Quantity, availability and transportation of materials

394. What is the name of the point at which all the weight of the body concentrated?

A) Initial point B) Centre of gravity
C) Centroid D) Central point

Answer: B) Centre of gravity

395. Convert 52% into fraction?

A) (17/25) B) (11/25)

C) (13/25) D) (9/25)

Answer: C) (13/25)

396. What is the interest earned, if the principal is Rs.12000/- becomes to an amount of Rs.15600/-?

A) Rs.2600 B) Rs.4600

C) Rs.5600 D) Rs.3600

Answer: D) Rs.3600

397. Which is the short form of profit and loss statement?

A) PRO & LOS B) PR & LS

C) P & L D) L & P

Answer: C) P & L

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

A) 36 cm² B) 26 cm²

C) 324 cm² D) 72 cm²

Answer: C) 324 cm²

399. What is the compounded annual interest, for a loan amount of Rs.80000/- at 10% per annum for a period of 2 years?

A) Rs.94800/- B) Rs.96800/

C) Rs.16800/- D) Rs.92400/-

Answer: C) Rs.16800/-

400. How much is 8% of 40 kg?

A) 5.2 kg B) 3.2 kg

C) 4.2 kg D) 2.2 kg

Answer: B) 3.2 kg

401. Which force acts on crank shaft?

A) Torsional stress B) Tensile stress

C) Shear stress D) Compressive stress

Answer: A) Torsional stress

402. Which one has the highest thermal conductivity?

A) Melting ice B) Water

C) Solid ice D) Steam

Answer: C) Solid ice

403. What is the value of x³+3y²x² if x=3, y=2?

A) 81 B) 54

C) 63 D) 135

Answer: D) 135

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

A) 78 mm B) 88 mm

C) 98 mm D) 68 mm

Answer: B) 88 mm

405. What is the minimum permissible area of conductor (U/G cable) for three and half cores cable?

A) 100 sq.mm B) 5 sq.mm

C) 50 sq.mm D) 25 sq.mm

Answer: C) 50 sq.mm

406. What is the matured amount for the deposit of Rs.5000/- and the simple interest earned for Rs.500/-?

A) Rs.6500 B) Rs.5500

C) Rs.6000 D) Rs.4500

Answer: B) Rs.5500

407. Which is thermosetting plastic?

A) Polystyrenes B) Melamine resins

C) Vinyl polymers D) Celluloid

Answer: B) Melamine resins

408. Which is the unit of current?

A) Watt B) Ampere

C) Ohm D) Volt

Answer: B) Ampere

409. What is the maturity amount if Rs.20000 is deposited at 5% compound interest per annum for 2 years?

A) Rs.22500 B) Rs.22000

C) Rs.25000 D) Rs.22050

Answer: D) Rs.22050

410. What is the density (r) in g/cm3 of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm,³?

A) 7.2 g/cm³ B) 7.5 g/cm³

C) 6.6 g/cm³ D) 6.9 g/cm³

Answer: B) 7.5 g/cm³

411. What is the expansion of (a+b+c)²?

A) a² + b² + c²- 2ab + 2bc + 2ca

B) a² - b² - c² + 2ab + 2bc + 2ca

C) a² + b²+ c²+ 2 (ab + bc + ca)

D) a² + b² + c² + 2ab - 2bc + 2ca

Answer: C) a² + b²+ c²+ 2 (ab + bc + ca)

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

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

Answer: A) 6 grams

413. What is the value in degree centigrade for 20 Degree F?

A) -6.57 Degree C
B) -6.37 Degree C
C) -6.47 Degree C
D) -6.67 Degree C

Answer: D) -6.67 Degree C