ITI Quiz - 04-Apr-2026 11:50 AM

Q. ID: ITISKILL4742JZ

April 2026 | **Govt ITI (W) Yelburga** | Answer Key

Duration: 30 Mins **Total Marks: 166** **Q.ID: ITISKILL4742JZ**

1. What is the formula for acceleration?

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

Answer: D) Metre/second²

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

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

Answer: B) 0.25% to 0.5%

3. What is the formual for induced emf?

A) B²L sinq volts B) BLV sinq volts
C) B²V sinq volts D) BL sinq volts

Answer: B) BLV sinq volts

4. Which among the following is an insulator?

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

Answer: C) Mica

5. 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%

6. 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) 6.9 g/cm³
C) 7.5 g/cm³ D) 6.6 g/cm³

Answer: C) 7.5 g/cm³

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

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

Answer: A) 25 sq.cm

8. What denotes letter M in MKS system?

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

Answer: D) Meter

9. Convert 0.456 decimal fraction into percentage?

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

Answer: D) 45.6

10. 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

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

A) 340 mm² B) 350 mm²
C) 320 mm² D) 330 mm²

Answer: D) 330 mm²

12. 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) Hardness D) Ductility

Answer: D) Ductility

13. What is the product of 0.003 x 0.5?

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

Answer: C) 0.0015

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

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

Answer: A) 1847 c.c

15. 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) 73.53 cm³ B) 73.23 cm³
C) 73.33 cm³ D) 73.43 cm³

Answer: A) 73.53 cm³

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

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

Answer: C) Efficiency

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

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

Answer: D) Body at motion

18. What is the formula for velocity?

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

Answer: B) Displacement/Time

19. Which is brittle metal?

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

Answer: B) Cast iron

20. How much is 8% of 40 kg?

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

Answer: C) 3.2 kg

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

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

Answer: C) 1440 m²

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

A) wb/m
B) m/wb
C) Hertz
D) Coloumb

Answer: A) wb/m

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

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

Answer: B) 6

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

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

Answer: A) Energy

25. 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

26. 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) 0.069 m/sec²
D) 0.69 m/sec²

Answer: C) 0.069 m/sec²

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

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

Answer: C) 75 kg.m/sec

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

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

Answer: C) Current

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

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

Answer: D) 8

30. What is the unit of speed?

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

Answer: B) Metre/second

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

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

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

32. What metals contained in brass alloy?

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

Answer: C) Copper and zinc

33. 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) 3730 Joules
B) 3720 Joules
C) 3750 Joules
D) 3740 Joules

Answer: C) 3750 Joules

34. What is the formula for speed?

A) Distance in definite direction /Time
B) Change in velocity/Time

C) Distance covered/Time
D) Change in momentum/Time

Answer: C) Distance covered/Time

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

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

Answer: A) 13.99

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

A) 1/17 ohms
B) 17 ohms
C) 11 ohms
D) 7 ohm

Answer: B) 17 ohms

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

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

Answer: B) Cobalt steel

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

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

Answer: C) Invar steel

39. What is the square root of 529?

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

Answer: C) 23

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

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

Answer: B) Velocity

41. What is the unit for velocity?

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

Answer: A) Metre/second

42. 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) 10 m/sec
D) 12 m/sec

Answer: A) 8 m/sec

43. 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) 1962 Joules
C) 1972 Joules
D) 1952 Joules

Answer: B) 1962 Joules

44. What is the formula for potential energy?

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

Answer: B) mgh joule

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

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

Answer: A) Blast furnace

46. What is the work done in unit time?

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

Answer: B) Power

47. What is the square root of 0.017?

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

Answer: C) 0.13

48. 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

49. 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

50. What is the density of aluminium?

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

Answer: D) 2.7 g/cm³

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

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

Answer: B) 625 Joules

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

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

Answer: A) I = V/R

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

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

Answer: D) 88 mm

54. 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) 14 metre/sec²
B) 12 metre/sec²
C) 8 metre/sec²
D) 10 metre/sec²

Answer: B) 12 metre/sec²

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

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

Answer: A) Plasticity

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

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

Answer: A) Fusibility

57. 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

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

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

Answer: C) 324 cm²

59. How many newtons for 1 kilogram?

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

Answer: A) 9.81 Newtons

60. Which one is non-metal?

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

Answer: B) Graphite

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 92%
C) Cu 96%
D) Cu 94%

Answer: D) Cu 94%

62. Which metal cannot be forged?

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

Answer: D) Cast iron

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

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

Answer: A) Pi (R² - r²)h

64. Which metal contains iron as a major content?

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

Answer: B) Ferrous metal

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

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

Answer: B) 76 cm

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

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

Answer: B) 1.65 metre

67. Which law states about electromagnetic induction?

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

Answer: D) Faraday's law

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

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

Answer: C) Current

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

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

Answer: B) 3750 cm²

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

A) 9.2 watts
B) 9.6 watts

C) 9.4 watts D) 9.8 watts

Answer: B) 9.6 watts

71. 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

72. What are fundamental units?

A) Length, Pressure, Volume B) Length, Mass, Volume

C) Length, Mass, Time D) Length, Mass, Area

Answer: C) Length, Mass, Time

73. Which is very good conductor?

A) Steel B) Cast iron

C) Wrought iron D) Copper

Answer: D) Copper

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

A) Mass B) Specific gravity

C) Weight D) Density

Answer: B) Specific gravity

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

A) 20.89 cm² B) 20.39 cm²

C) 20.93 cm² D) 20.98 cm²

Answer: C) 20.93 cm²

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

A) Speed B) Vector quantity

C) Scalar quantity D) Velocity

Answer: C) Scalar quantity

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

A) 1463 cm³ B) 1346 cm³

C) 1636 cm³ D) 1436 cm³

Answer: D) 1436 cm³

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

A) 90 cm² B) 75 cm²

C) 80 cm² D) 85 cm²

Answer: C) 80 cm²

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

A) 2.948 kg B) 2.448

C) 2.848 kg D) 2.648 kg

Answer: C) 2.848 kg

80. 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) 10.0 cm³ B) 10.6 cm³

C) 136 cm³ D) 13.6 cm³

Answer: A) 10.0 cm³

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

A) 1769.25 liters B) 1767.25 liters

C) 1766.25 liters D) 1768.25 liters

Answer: C) 1766.25 liters

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

A) 02:04 B) 04:08

C) 05:01 D) 08:04

Answer: C) 05:01

83. Which is the unit of current?

A) Volt B) Ohm

C) Ampere D) Watt

Answer: C) Ampere

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

A) 21 m³ B) 41 m³

C) 31 m³ D) 11 m³

Answer: A) 21 m³

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

A) 24 days B) 26 days

C) 20 days D) 22 days

Answer: A) 24 days

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

A) Metre/second B) Metre/second²

C) Metre/minutes D) Metre/minutes²

Answer: B) Metre/second²

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

A) Current B) Resistance

C) Voltage D) EMF

Answer: B) Resistance

88. 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

89. 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

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

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

Answer: A) Fundamental and derived

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

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

Answer: B) Mild steel

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

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

Answer: A) 876.82 cm²

93. How many ergs for 1 Joule?

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

Answer: C) 10^7 ergs

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

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

Answer: A) 20 m

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

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

Answer: A) 1 watt

96. What is the formula for kinetic energy?

A) (2/3) mv² joule
B) (2/3) mv joule
C) (1/2) mv joule
D) (1/2) mv² joule

Answer: D) (1/2) mv² joule

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

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

Answer: A) Vector quantity

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

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

Answer: C) Weight

99. Which alloy used in electric lamp as filament?

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

Answer: C) Tungsten

100. What percentage of 80 is 20?

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

Answer: B) 0.25

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

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

Answer: C) Hardness

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

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

Answer: D) 23.46

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

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

Answer: C) 19.5

104. 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) 10 dynes
C) 1 dyne
D) 1 Joule

Answer: D) 1 Joule

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

A) 0.185
B) 0.165

C) 0.175 D) 0.195

Answer: A) 0.185

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

A) 90 sq.metre B) 88 sq.metre

C) 86 sq.metre D) 92 sq.metre

Answer: B) 88 sq.metre

107. What does EMF stands for?

A) Electronic Magnetic Force B) Electromated Force

C) Electro Magnetic Force D) Electro Motive Force

Answer: D) Electro Motive Force

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

A) Mild steel - Blast furnace B) Cupola

C) Steel - Rever battery D) Alloy metal - Electric furnace

Answer: B) Cupola

109. 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) 0.40 m/sec² D) 0.30 m/sec²

Answer: D) 0.30 m/sec²

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

A) 33 ohms B) 13 ohms

C) 43 ohms D) 23 ohms

Answer: A) 33 ohms

111. How much watt second in 1 watt hour?

A) 2000 watt sec B) 4000 watt sec

C) 3600 watt sec D) 1000 watt sec

Answer: C) 3600 watt sec

112. Which cast iron cannot be welded?

A) Grey cast iron B) Nodular cast iron

C) White cast iron D) Malleable cast iron

Answer: C) White cast iron

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

A) 18 B) 12

C) 42 D) 36

Answer: D) 36

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

A) 2030 watts B) 2000 watts

C) 2010 watts D) 2020 watts

Answer: B) 2000 watts

115. What is the definition of ratio?

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

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

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

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

A) (12/10) B) (13/10)

C) (9/10) D) (3/10)

Answer: C) (9/10)

117. Which is equal to electric power?

A) RI B) R²I watts

C) IRA D) I²R watts

Answer: D) I²R watts

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

A) 220 grams B) 200 grams

C) 210 grams D) 190 grams

Answer: D) 190 grams

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

A) Density B) Volume

C) Mass D) Specific gravity

Answer: C) Mass

120. 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) Lenz's law D) Ohm's law

Answer: D) Ohm's law

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

A) 1932.5 cm² B) 1942.5 cm²

C) 1962.5 cm² D) 1952.5 cm²

Answer: C) 1962.5 cm²

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

A) 0.50% to 1.50% B) 0.02% to 0.03%

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

Answer: A) 0.50% to 1.50%

123. What is the filament resistance if a 6 volt bulb draws a

current of 0.5 Amps?

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

Answer: A) 12 W

124. Which machine converts mechanical energy into electrical energy?

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

Answer: C) Generator

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

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

Answer: D) 157.1 cm²

126. 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) 10
C) 25 D) 15

Answer: A) 6

127. Convert 52% into fraction?

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

Answer: D) (13/25)

128. 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) 73.57 KJ D) 75.57 KJ

Answer: C) 73.57 KJ

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

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

Answer: D) 220.3 volts

130. Which is the example for dynamicallly induced Emf?

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

Answer: D) Generator

131. 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 106 kg meter B) 12 x 104 kg meter
C) 12 x 105 kg meter D) 12 x 107 kg meter

Answer: C) 12 x 105 kg meter

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

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

Answer: B) 47 cm²

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

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

Answer: B) 7848 Newton

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

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

Answer: A) High carbon steel

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

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

Answer: A) 5 Amps

136. Which is mineral insulator

A) Porcelain B) Quartz
C) Mica D) Glass

Answer: C) Mica

137. 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) 34 km/hour B) 30 km/hour
C) 32 km/hour D) 36 km/hour

Answer: D) 36 km/hour

138. Which insulator is used in over head lines?

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

Answer: C) Porcelain

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

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

Answer: A) Non-ferrous metals

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

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

Answer: A) Ductility

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

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

Answer: C) 0.25 metre

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

A) 100 Volts
B) 108 Volts
C) 110 Volts
D) 105 Volts

Answer: C) 110 Volts

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

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

Answer: C) 2(2/3)

144. 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

145. Which insulating material is used for making switches?

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

Answer: C) Bakelite

146. What is the ore of aluminium?

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

Answer: A) Bauxite

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

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

Answer: D) 669 Joules

148. Which is the unit of resistance?

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

Answer: A) Ohm

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

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

Answer: C) 4.4 Amps

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

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

Answer: A) (52/7)

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

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

Answer: C) 400 volts

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

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

Answer: A) Density

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

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

Answer: A) 96.8 ohms

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

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

Answer: B) Silicon

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

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

Answer: D) Body at rest

156. Which is the unit electrical power?

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

Answer: B) Watts

157. Convert decimal 0.000659 to fraction?

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

Answer: C) (659/1000000)

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

A) 10 hours
B) 18 hours
C) 24 hours
D) 12 hours

Answer: A) 10 hours

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

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

Answer: D) Di-electric strength

160. 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

161. Which is the example for statically induced emf?

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

Answer: C) Transformer

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

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

Answer: D) 39.59 cm

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

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

Answer: D) Rs 240

164. What is the power required?
 I = 0.455 Amps
 R = 484 Ohms
 P = _____Watts

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

Answer: C) 100.2 watts

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

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

Answer: C) Grey cast iron

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

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

Answer: D) 2.4