

Government ITI

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23.03% 35 / 152

Student Name	CHANDAN	Access Code	8646
Attempt No.	#1	Completion Time	06:02 PM
Rank	#1	Total Questions	152

35 SCORE

152 MAX MARKS

35 CORRECT

117 INCORRECT

Answer Review

Q1 **CORRECT** What is termed as the quantity of matter contained in a body?

A. Density

B. Volume

C. Mass ☒

D. Specific gravity

Q2 **CORRECT** What is the force with which a body is attracted by the earth towards its centre?

A. Mass

B. Weight ☒

C. Volume

D. Density

Q3 **INCORRECT** What is called mass per unit volume of a substances?

A. Mass

B. Weight ☐

C. Density ☐

D. Volume

Q4 **INCORRECT** 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

Q5 **INCORRECT** What is the density of aluminium?

A. 2.7 g/cm^3 ☐

B. 3.7 g/cm^3

C. 4.7 g/cm^3

D. 5.7 g/cm^3 ☐

Q6 **CORRECT** Wha is the mass if the density of a body is 7.6 g/cm^3 and its volume is 25 cm^3 ?

A. 190 grams ☐

B. 200 grams

C. 210 grams

D. 220 grams

Q7 **CORRECT** What is the specific gravity of the solid, if density of the solid is 19.5 g/cm^3 ?

A. 8

B. 18.5

C. 19

D. 19.5 ☐

Q8 **INCORRECT** 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. 6.6 g/cm^3

B. 6.9 g/cm^3

C. 7.2 g/cm^3 ☐

D. 7.5 g/cm^3 ☐

Q9 **INCORRECT** What is the volume (V) of mercury in cm^3 , if mass (m) of mercury is 1 kg and density (ρ) is 13.6 g/cm^3 ?

A. 73.53 cm^3 ☐

B. 73.43 cm^3

C. 73.33 cm^3

D. 73.23 cm^3 ☐

Q10 **INCORRECT** What is the mass in gram, if a force of 15 dynes acting on a mass m producing an acceleration of 2.5 cm/sec^2 ?

A. 9 grams

B. 8 grams ☐

C. 7 grams

D. 6 grams ☐

Q11 **INCORRECT** 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. 15 ☐

D. 25 ☐

Q12 **INCORRECT** 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. 10.6 cm^3 ☐

D. 10.0 cm^3 ☐

Q13 **INCORRECT** What is the block weighs (W) in kg, if volume (V) is 320 cm^3 and density 8.9 g/cm^3 ?

A. 2.948 kg ☐

B. 2.848 kg ☐

C. 2.648 kg ☐

D. 2.448 ☐

Q14 **INCORRECT** What is the specific gravity of the metal, if the weighs 6.5 kgf in air and 3.5 kgf in water?

A. 6.166 ☐

B. 3.166 ☐

C. 2.166 ☐

D. 1.166 ☐

Q15 **INCORRECT** What is the weight force of a car has a mass of 800 kg?(Take $g = 9.81\text{m/sec}$)

A. 7848 Newton ☐

B. 7748 Newton

C. 7847 Newton

D. 7487 Newton ☐

Q16 **INCORRECT** Which one is non-metal?

A. Mercury ☐

B. Graphite ☐

C. Brass

D. Iron

Q17 **CORRECT** Which metal contains iron as a major content?

A. Brass metal

B. Bronze metal

C. Zinc

D. Ferrous metal ☐

Q18 **INCORRECT** What is the name of the metal which do not contain iron?

A. Ferrous metals

B. Non-ferrous metals ☐

C. Insulating metals

D. Non-Insulating metals ☐

Q19 **INCORRECT** Which one of the following properties is the mechanical properties of metal?

A. Fusibility

B. Ductility ☐

C. Corrosion

D. Structure ☐

Q20 **INCORRECT** Which is brittle metal?

A. Cast iron ☐

B. Steel ☐

C. Mild steel

D. Alloy steel

Q21 **INCORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility

B. Malleability ☐

C. Hardness ☐

D. Toughness

Q22 **INCORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity ☐

C. Ductility

D. Brittleness ☐

Q23 **INCORRECT** Which property of metal has its power of returning to its original shape after the applied force is released?

A. Malleability

B. Tenacity

C. Elasticity ☒

D. Plasticity ☐

Q24 **CORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity

B. Malleability

C. Fusibility ☒

D. Tenacity

Q25 **INCORRECT** Which alloy used in electric lamp as filament?

A. Cobalt

B. Vanadium

C. Tungsten ☒

D. Silicon ☐

Q26 **INCORRECT** What metals contained in brass alloy?

A. Copper and aluminium

B. Copper and lead ☐

C. Copper and zinc ☒

D. Copper and tin

Q27 **INCORRECT** Which cast iron cannot be welded?

A. Grey cast iron

B. White cast iron ☐

C. Malleable cast iron ☐

D. Nodular cast iron

Q28 **INCORRECT** Which metal cannot be forged?

A. Alloy steel

B. Mild steel ☐

C. Steel

D. Cast iron ☐

Q29 **INCORRECT** 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 ☐

Q30 **INCORRECT** Which furnace is used to get pig iron from iron ore?

A. Mild steel - Rever battery ☐

B. Electric furnace

C. Blast furnace ☐

D. Cupola

Q31 **INCORRECT** What is the name of furnace to obtained cast iron?

A. Cupola ☐

B. Mild steel - Blast furnace ☐

C. Steel - Rever battery

D. Alloy metal - Electric furnace

Q32 **INCORRECT** What is the other name of low carbon steel?

A. Low alloy steel

B. High alloy steel ☐

C. High speed steel

D. Mild steel ☐

Q33 **INCORRECT** What is the carbon percentage in medium carbon steel?

A. 0.05% to 0.15% ☐

B. 0.15% to 0.25%

C. 0.25% to 0.5% ☐

D. 0.5% to 1.5%

Q34 **INCORRECT** What is the carbon percentage in low carbon steel?

A. 0.02% to 0.03% ☐

B. 0.15% to 0.25% ☐

C. 0.25% to 0.50%

D. 0.50% to 1.50%

Q35 **INCORRECT** What is the carbon percentage in high carbon steel?

A. 0.02% to 0.03%

B. 0.15% to 0.25% ☐

C. 0.25% to 0.50%

D. 0.50% to 1.50% ☐

Q36 **INCORRECT** What is the ore of aluminium?

A. Hematite

B. Mallatite ☐

C. Bauxite ☐

D. Lemonite

Q37 **INCORRECT** Which property of a metal enables it by which it can be drawn out into wires under tension without rupture?

A. Ductility ☐

B. Malleability

C. Hardness ☐

D. Brittleness

Q38 **INCORRECT** Which among the following is an insulator?

A. Copper

B. Aluminium

C. Silver ☐

D. Mica ☐

Q39 **CORRECT** Which rubber is used as insulator for power cables and control wires?

A. Butyl

B. Hypalone

C. Silicon ☒

D. Nitrite butadiene

Q40 **INCORRECT** Which alloy steel is used to make permanent magnets?

A. Silicon steel

B. Manganese steel ☐

C. Vanadium steel

D. Cobalt steel ☒

Q41 **INCORRECT** Which insulator is used in over head lines?

A. Mica ☐

B. Rubber

C. P.V.C

D. Porcelain ☒

Q42 **INCORRECT** Which insulating material is used for making switches?

A. Porcelain

B. PVC

C. Bakelite ☒

D. Ebonite ☐

Q43 **INCORRECT** What is the name of the property of an insulation that should brake down or puncture on application of high voltage?

A. Di-electric strength ☐

B. Specific resistance ☐

C. Mechanical strenth

D. Non absorption

Q44 **INCORRECT** Which alloy steel is using for making precious instrument?

A. Silicon steel

B. Manganese steel

C. Invar steel ☐

D. Vanadium ☐

Q45 **INCORRECT** Which steel is used for making files and cold chisel?

A. Low carbon steel ☐

B. Midium carbon steel

C. High carbon steel ☐

D. Stainless steel

Q46 **CORRECT** What is the area of a square whose side is 18 cm?

A. 26 cm^2

B. 36 cm^2

C. 72 cm^2

D. 324 cm^2 ☐

Q47 **INCORRECT** What is the diagonal of a square plate whose side is 28 cm?

A. 39.29 cm ☐

B. 39.39 cm

C. 39.49 cm

D. 39.59 cm ☒

Q48 **CORRECT** What is the side of a square whose area is 625 mm^2 ?

A. 15 mm

B. 20 mm

C. 25 mm ☒

D. 30 mm

Q49 **INCORRECT** What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?

A. 56 cm

B. 66 cm ☐

C. 76 cm ☒

D. 86 mm

Q50 **INCORRECT** What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

A. 75 cm^2 ☐

B. 80 cm^2 ☒

C. 85 cm^2

D. 90 cm^2

Q51 **INCORRECT** What is the area of a right angled triangle having a base 10 cm and height 5 cm?

A. 20 sq.cm ☐

B. 25 sq.cm ☒

C. 30 sq.cm ☐

D. 35 sq.cm ☐

Q52 **INCORRECT** What is the primeter of scalene. Triangle having sides of 40mm, 20mm and 28mm?

A. 68 mm ☐

B. 78 mm ☐

C. 88 mm ☒

D. 98 mm ☐

Q53 **INCORRECT** What is the area of an equilateral triangle of side 450 mm?

A. 856.82 cm^2 ☐

B. 866.82 cm^2 ☐

C. 876.82 cm^2 ☒

D. 886.82 cm^2 ☐

Q54 **INCORRECT** What is the area of a circle of diameter 50 cm?

A. 1932.5 cm^2 ☐

B. 1942.5 cm^2 ☐

C. 1952.5 cm^2 ☐

D. 1962.5 cm^2 ☒

Q55 **INCORRECT** What is the area of a (A) semicircle whose dia is 20 cm (d)?

A. 147.1 cm^2

B. 157.1 cm^2 ☐

C. 167.1 cm^2

D. 177.1 cm^2 ☐

Q56 **INCORRECT** What is the cross sectional area of a circular ring of $D = 38 \text{ mm}$ $d = 32 \text{ mm}$?

A. 320 mm^2

B. 330 mm^2 ☐

C. 340 mm^2 ☐

D. 350 mm^2

Q57 **INCORRECT** What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

A. 20.39 cm^2

B. 20.93 cm^2 ☐

C. 20.89 cm^2

D. 20.98 cm^2 ☐

Q58 **INCORRECT** What is the area of an ellipse if the major and minor axes are 5 cm and 3 cm respectively?

A. 27 cm^2 ☐

B. 37 cm^2

C. 47 cm^2 ☐

D. 57 cm^2

Q59 **INCORRECT** Find the total surface area of cube whose side is 25 cm.

A. 3740 cm^2 ☐

B. 3745 cm^2 ☐

C. 3750 cm^2 ☒

D. 3755 cm^2 ☐

Q60 **INCORRECT** Find the total surface area of a cast iron bar whose length, width and height are 20m, 15m and 12m.

A. 1340 m^2 ☐

B. 1440 m^2 ☒

C. 1540 m^2 ☐

D. 1640 m^2 ☐

Q61 **CORRECT** What is the formula for total surface area of a cylinder?

A. $2 \pi r (h + r)$ ☒

B. $\pi r (h + r)$ ☐

C. πrh ☐

D. $2 \pi rh$ ☐

Q62 **INCORRECT** What is the volume of a rectangular tank of 30 m length, 20m width and 10m height?

A. 5900 m^3 ☐

B. 6000 m^3 ☒

C. 6100 m^3 ☐

D. 6200 m^3 ☐

Q63 **CORRECT** What is volume of the cylinder whose radius is 7 cm and height 12 cm?

A. 1842 c.c

B. 1844 c.c

C. 1846 c.c

D. 1847 c.c ☒

Q64 **CORRECT** What is the volume of sphere of radius 7 cm?

A. 1436 cm^3 ☒

B. 1463 cm^3

C. 1346 cm^3

D. 1636 cm^3

Q65 **INCORRECT** What is the formula for finding volume of a hollow cylinder having outer radius 'R' inner radius 'r' and height 'h'?

A. $\pi (R^2 - r^2)h$ ☒

B. $\pi/3 (R^2 - r^2) h$

C. $2/3 \pi (R^2 - r^2) h$

D. $4/3 \pi (R^2 - r^2)h$ ☐

Q66 **CORRECT** What is the capacity of a conical tank of radius 2 m and height 5m?

A. 11 m^3

B. 21 m^3 ☒

C. 31 m^3

D. 41 m^3

Q67 **INCORRECT** How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

A. 1766.25 liters ☐

B. 1767.25 liters

C. 1768.25 liters

D. 1769.25 liters ☐

Q68 **INCORRECT** What is the total surface area of a cylinder having radius 2 metres and height 5 metres?

A. 86 sq.metre

B. 88 sq.metre ☐

C. 90 sq.metre ☐

D. 92 sq.metre

Q69 **INCORRECT** Find the curved surface area of a cylinder 10 cm dia and 20 cm height?

A. 620 cm^2 ☐

B. 628 cm^2 ☐

C. 630 cm^2

D. 638 cm^2

Q70 **INCORRECT** What is the formula for speed?

A. Distance covered/Time ☐

B. Change in velocity/Time

C. Distance in definite direction /Time

D. Change in momentum/Time ☐

Q71 **INCORRECT** What is the unit of speed?

A. Metre/second ☐

B. Metre/second² ☐

C. Metre/minute ☐

D. Metre/hour ☐

Q72 **INCORRECT** What is the formula for velocity?

A. Distance covered/Time ☐

B. Displacement/Time ☐

C. Change in velocity/Time ☐

D. Change of momentum/Time ☐

Q73 **INCORRECT** What is the unit for velocity?

A. Metre/second ☐

B. Metre/second² ☐

C. Metre/minute ☐

D. Metre/hour ☐

Q74 **CORRECT** What is called if a body posses only magnitude or size alone?

A. Speed ☐

B. Velocity ☐

C. Vector quantity ☐

D. Scalar quantity ☐

Q75 **INCORRECT** What is called if a body posses both magnitude and direction of velocity?

A. Speed ☐

B. Velocity

C. Vector quantity ☒

D. Scalar quantity

Q76 **INCORRECT** What is the rate of change of displacement of a body?

A. Body at rest

B. Body at motion

C. Speed ☐

D. Velocity ☒

Q77 **CORRECT** What is called if a body does not change its position with respect to its surroundings?

A. Body at motion

B. Body at rest ☒

C. Speed

D. Velocity

Q78 **CORRECT** What is called if a body changes its position with respect to its surroundings?

A. Body at rest

B. Body at motion ☒

C. Speed

D. Velocity

Q79 **INCORRECT** What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

A. 6 m/sec

B. 8 m/sec ☐

C. 10 m/sec ☐

D. 12 m/sec

Q80 **INCORRECT** 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. 32 km/hour

C. 34 km/hour ☐

D. 36 km/hour ☐

Q81 **INCORRECT** What is the formula for acceleration?

A. Metre/second

B. Metre/second² ☐

C. Metre/minute

D. Metre/hour ☐

Q82 **INCORRECT** What is the unit of acceleration of an object?

A. Metre/second ☐

B. Metre/second² ☐

C. Metre/minutes

D. Metre/minutes²

Q83 **INCORRECT** 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. 0.059 m/sec^2

B. 0.59 m/sec^2 ☐

C. 0.069 m/sec^2 ☒

D. 0.69 m/sec^2

Q84 **INCORRECT** What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

A. 0.40 m/sec^2

B. 0.30 m/sec^2 ☒

C. 0.20 m/sec^2 ☐

D. 0.10 m/sec^2

Q85 **INCORRECT** 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. 12 metre/sec^2 ☒

D. 14 metre/sec^2 ☐

Q86 **INCORRECT** What maximum height a stone will reach if it is thrown upwards with a velocity of 20 m/sec ($g = 10 \text{ m/sec}^2$)

A. 10 m

B. 20 m ☒

C. 30 m

D. 40 m ☐

Q87 **INCORRECT** What is the work done in unit time?

A. Energy

B. Power ☒

C. Force ☐

D. Acceleration

Q88 **CORRECT** What is the capacity of a body to do work is called?

A. Energy ☒

B. Power

C. Acceleration

D. Force

Q89 **CORRECT** What is the ratio of power output to power input?

A. Work

B. Energy

C. Efficiency ☒

D. Acceleration

Q90 **CORRECT** What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?

A. 1 Joule ☒

B. 10 Joules

C. 1 dyne

D. 10 dynes

Q91 **INCORRECT** How many ergs for 1 Joule?

A. 10^3 ergs

B. 10^5 ergs ☐

C. 10^7 ergs ☐

D. 10^9 ergs

Q92 **INCORRECT** How many newtons for 1 kilogram?

A. 981 Newtons ☐

B. 98.1 Newtons

C. 9.81 Newtons ☐

D. 0.981 Newtons

Q93 **INCORRECT** How many watts for 1 horse power in metric system?

A. 725.5 watts

B. 735.5 watts ☐

C. 745.5 watts

D. 755.5 watts ☐

Q94 **INCORRECT** How many watts for 1 horse power in British system?

A. 726 watts

B. 736 watts

C. 746 watts ☐

D. 756 watts ☐

Q95 **CORRECT** What is the equivalent unit for 1 horse power in metric system?

A. 75 kg.m/sec ☐

B. 76 kg.m/sec

C. 77 kg.m/sec

D. 78 kg.m/sec

Q96 **INCORRECT** What is the formula for potential energy?

A. mgh joule ☐

B. mgh^2 joule

C. $\frac{1}{2} mgh$ joule ☐

D. $\frac{2}{3} mgh$ joule

Q97 **CORRECT** What is the formula for kinetic energy?

A. $\frac{1}{2} mv$ joule

B. $\frac{1}{2} mv^2$ joule ☐

C. $\frac{2}{3} mv^2$ joule

D. $\frac{2}{3} mv$ joule

Q98 **INCORRECT** 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 105 kg meter ☐

C. 12 x 106 kg meter ☐

D. 12 x 107 kg meter

Q99 **INCORRECT** 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. 3740 Joules

D. 3750 Joules ☒

Q100 **INCORRECT** What is the potential energy, if a body of mass 250 kg is at a height of 30 metre?

A. 72.57 KJ

B. 73.57 KJ ☒

C. 74.57 KJ ☐

D. 75.57 KJ

Q101 **INCORRECT** 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. 1952 Joules ☐

C. 1962 Joules ☒

D. 1972 Joules

Q102 **INCORRECT** 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 ☒

Q103 **CORRECT** What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

A. 620 Joules

B. 625 Joules ☒

C. 630 Joules

D. 635 Joules

Q104 **INCORRECT** What is the square root of 0.017?

A. 0.001

B. 0.13 ☒

C. 0.00001 ☐

D. 0.000001

Q105 **INCORRECT** What is the definition of ratio?

A. Relation of two quantities of the same kind ☒

B. Relation of two quantities of the different kind ☐

C. Equality between two ratios

D. Inequality between two ratios

Q106 **INCORRECT** What is the ratio of 4 kg to 800 grams?

A. 05:01 ☒

B. 04:08

C. 08:04 ☐

D. 02:04

Q107 **INCORRECT** What percentage of 80 is 20?

A. 0.8

B. 0.4

C. 0.25 ☒

D. 0.2 ☐

Q108 **INCORRECT** How much is 8% of 40 kg?

A. 2.2 kg ☐

B. 3.2 kg ☒

C. 4.2 kg

D. 5.2 kg

Q109 **INCORRECT** Convert 52% into fraction?

A. (9/25) ☐

B. (11/25)

C. (13/25) ☒

D. (17/25)

Q110 **INCORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456 ☐

C. 45.6 ☒

D. 0.000456

Q111 **CORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6

C. 8 ☒

D. 10

Q112 **CORRECT** What is the square root of decimal number 550.37?

A. 21.26

B. 22.26

C. 22.46

D. 23.46 ☒

Q113 **CORRECT** 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

Q114 **INCORRECT** How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

A. 20 days

B. 22 days

C. 24 days ☒

D. 26 days ☐

Q115 **INCORRECT** 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. 120 rpm

B. 140 rpm

C. 160 rpm ☐

D. 180 rpm ☐

Q116 **INCORRECT** What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

A. Cu 92%

B. Cu 94% ☐

C. Cu 96%

D. Cu 98% ☐

Q117 **INCORRECT** 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 240 ☐

D. Rs 260 ☐

Q118 **CORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185 ☐

B. 0.175

C. 0.165

D. 0.195

Q119 **INCORRECT** What are the two classifications of system of units?

A. British and Metric

B. Gravitational and non-gravitational

C. Fundamental and derived ☐

D. Metric and International ☐

Q120 **INCORRECT** What are fundamental units?

A. Length, Mass, Volume ☐

B. Length, Mass, Time ☐

C. Length, Mass, Area

D. Length, Pressure, Volume

Q121 **INCORRECT** What denotes letter M in MKS system?

A. Mile ☐

B. Meter ☐

C. Millimeter

D. Micron

Q122 **INCORRECT** How many millimetres are there in 1 inch?

A. 2.54 mm

B. 25.4 mm ☐

C. 24.5 mm

D. 2.45 mm ☐

Q123 **INCORRECT** What is the LCM of 12, 18, 6, 36?

A. 12 ☐

B. 18 ☐

C. 36 ☒

D. 42 ☐

Q124 **INCORRECT** What is the HCF of 18, 42, 24?

A. 2 ☐

B. 6 ☒

C. 18 ☐

D. 24 ☐

Q125 **INCORRECT** What is the improper fraction for the given mixed fraction ? $7 \frac{3}{7}$

A. $\frac{52}{7}$ ☒

B. $\frac{7}{52}$ ☐

C. $\frac{28}{7}$ ☐

D. $\frac{7}{28}$ ☐

Q126 **INCORRECT** Convert decimal 0.000659 to fraction?

A. $\frac{659}{1000}$ ☐

B. $\frac{659}{10000}$ ☐

C. $\frac{659}{100000}$ ☐

D. $\frac{659}{1000000}$ ☒

Q127 **INCORRECT** Simplify: $(\frac{3}{4}) + (\frac{2}{5}) - (\frac{5}{20})$

A. $(\frac{3}{10})$

B. $(\frac{9}{10})$ ☐

C. $(\frac{12}{10})$

D. $(\frac{13}{10})$ ☐

Q128 **INCORRECT** Divide $(\frac{20}{31}) / (\frac{15}{62})$

A. $2(\frac{4}{3})$

B. $2(\frac{1}{3})$

C. $2(\frac{3}{2})$ ☐

D. $2(\frac{2}{3})$ ☐

Q129 **CORRECT** What is the product of 0.003×0.5 ?

A. 0.00015

B. 0.0015 ☐

C. 0.015

D. 0.15

Q130 **INCORRECT** Simplify: $(17.49 \times 5.2) / (6.5)$

A. 13.69

B. 13.79

C. 13.89 ☐

D. 13.99 ☐

Q131 **INCORRECT** 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. 0.25 metre ☒

C. 0.28 metre

D. 0.29 metre ☐

Q132 **INCORRECT** What is the square root of 529?

A. 12

B. 23 ☒

C. 33

D. 43 ☐

Q133 **INCORRECT** Convert 0.456 decimal fraction into percentage? | 0.456 ದಶಮಾಂಶ ಭಾಗವನ್ನು ಶೇಕಡಾವಾರು ಆಗಿ ಪರಿವರ್ತಿಸಿ?

A. 45.6% ☐

B. 0.0456

C. 0.456% ☐

D. 0.0456%

Q134 **CORRECT** What is the square root of 529? | 529 ರ ವರ್ಗಮೂಲ ಯಾವುದು?

A. 13

B. 23 ☒

C. 33

D. 43

Q135 **INCORRECT** What is termed as the quantity of matter contained in a body? | ವಸ್ತುವಿನಲ್ಲಿ ಇರುವ ದ್ರವ್ಯದ ಪರಿಮಾಣವನ್ನು ಎಂದು ಏನು ಕರೆಯಲಾಗುತ್ತದೆ?

A. Density | ಸಾಂದ್ರತೆ

B. Volume | ಗಾತ್ರ

C. Mass | ದ್ರವ್ಯರಾಶಿ ☐

D. Specific gravity | ವಿಶಿಷ್ಟ ಗುರುತ್ವ ☐

Q136 **INCORRECT** What is the ratio of mechanical advantage to the velocity ratio of a simple machine? | ಸರಳ ಯಂತ್ರದ ಯಾಂತ್ರಿಕ ಲಾಭ ಮತ್ತು ವೇಗ ಅನುಪಾತ ದ ಅನುಪಾತ ಏನು?

A. Load | ಲೋಡ್

B. Effort | ಪ್ರಯತ್ನ

C. Efficiency | ದಕ್ಷತೆ ☐

D. Power | ಶಕ್ತಿ ☐

Q137 **INCORRECT** How many watts for 1 horse power in British system? | ಬ್ರಿಟಿಷ್ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ 1 ಕುದುರೆ ಶಕ್ತಿಗಾಗಿ (HP) ಎಷ್ಟು ವ್ಯಾಟ್?

A. 726 watts

B. 736 watts ☐

C. 746 watts ☐

D. 756 watts

Q138 **INCORRECT** What is called mass per unit volume of a substances? | ವಸ್ತುವಿನ ಪ್ರತಿ ಯೂನಿಟ್ ಪರಿಮಾಣದ ದ್ರವ್ಯರಾಶಿಗೆ ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ?

A. Mass | ದ್ರವ್ಯರಾಶಿ

B. Weight | ತೂಕ

C. Density | ಸಾಂದ್ರತೆ ☐

D. Volume | ಗಾತ್ರ ☐

Q139 **INCORRECT** 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 ☐

Q140 **CORRECT** What is known for the temperature at which any solid melts into liquid? | ಯಾವುದೇ ಘನ ದ್ರವಕ್ಕೆ ಕರಗುವ ತಾಪಮಾನಕ್ಕೆ ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ?

A. Boiling point | ಕುದಿಯುವ ಬಿಂದು ☐

B. Melting point | ಕರಗುವ ಬಿಂದು ☒

C. Latent heat of fusion | ಸುಷ್ಪ ಶಾಖ ☐

D. Latent heat of vaporisation | ಆವಿಯಾಗುವಿಕೆಯ ಸುಷ್ಪ ಶಾಖ ☐

Q141 **CORRECT** What are the two classifications of system of units? | ಮೂಲಮಾನಗಳ ವ್ಯವಸ್ಥೆಯ ಎರಡು ವರ್ಗೀಕರಣಗಳು ಯಾವುವು?

A. British and Metric | ಬ್ರಿಟಿಷ್ ಮತ್ತು ಮೆಟ್ರಿಕ್ ☐

B. Gravitational and non-gravitational | ಗುರುತ್ವ ಮತ್ತು ಗುರುತ್ವಾಕರ್ಷಣೆಯಿಲ್ಲದ ☐

C. Fundamental and derived | ಮೂಲಭೂತ ಮತ್ತು ಪಡೆಯಲಾಗಿದೆ ☒

D. Metric and International | ಮೆಟ್ರಿಕ್ ಮತ್ತು ಅಂತರರಾಷ್ಟ್ರೀಯ ☐

Q142 **INCORRECT** How many millimetres are there in 1 inch? | 1 ಇಂಚಿನಲ್ಲಿ ಎಷ್ಟು ಮಿಲಿಮೀಟರ್‌ಗಳಿವೆ?

A. 2.54 mm ☐

B. 25.4 mm ☒

C. 24.5 mm ☐

D. 2.45 mm ☐

Q143 **INCORRECT** What is the boiling point of water? | ನೀರಿನ ಕುದಿಯುವ ಬಿಂದು ಯಾವುದು?

A. 0°C ☐

B. 32°C ☐

C. 100°C ☒

D. 212°C ☐

Q144 **CORRECT** What is the ratio of power output to power input? | ವಿದ್ಯುತ್ ಉತ್ಪಾದನೆಯ ವಿದ್ಯುತ್ ಇನ್ಪುಟ್ ಅನುಪಾತ ಎಷ್ಟು?

A. Work ☐

B. Energy ☐

C. Efficiency ☒

D. Acceleration ☐

Q145 **INCORRECT** What is the side of a square whose area is 625 mm²? | 625 ಎಂಎಂ² ವಿಸ್ತೀರ್ಣವಿರುವ ಚೌಕದ ಬದಿ ಎಷ್ಟು?

A. 15 mm ☐

B. 20 mm ☐

C. 25 mm ☒

D. 30 mm ☐

Q146 **CORRECT** What denotes letter M in MKS system? | ಎಂ ಎಂ ಎಸ್ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ M ಅಕ್ಷರ ಏನನ್ನು ಸೂಚಿಸುತ್ತದೆ?

A. Mile ☐

B. Meter ☒

C. Millimeter ☐

D. Micron ☐

Q147 **CORRECT** Which is the unit of current? | ಪ್ರವಾಹದ ಮೂಲಮಾನ ಯಾವುದು?

A. Ampere | ಆಂಪಿಯರ್ □

B. Volt | ವೋಲ್ಟ್

C. Ohm | ಓಂ

D. Watt | ವ್ಯಾಟ್

Q148 **INCORRECT** 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. A □

B. B

C. C

D. D □

Q149 **INCORRECT** What is the value of $\tan 45^\circ$ if $\sin 45^\circ = 1/\sqrt{2}$? | Sin $45^\circ = 1/\sqrt{2}$ ಆಗಿದ್ದರೆ $\tan 45^\circ$ ಮೌಲ್ಯವಷ್ಟು?

- (A) $\frac{1}{\sqrt{2}}$
- (B) $\frac{\sqrt{3}}{2}$
- (C) 1
- (D) $\frac{1}{\sqrt{3}}$

A. A

B. B □

C. C □

D. D

Q150 **INCORRECT** What are fundamental units? | ಮೂಲಭೂತ ಮೂಲಮಾನಗಳು ಯಾವುವು?

A. Length, Mass, Volume | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ಘನ ಫಲ

B. Length, Mass, Time | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ಸಮಯ □

C. Length, Mass, Area | ಉದ್ದ, ದ್ರವ್ಯರಾಶಿ, ವಿಸ್ತೀರ್ಣ □

D. Length, Pressure, Volume | ಉದ್ದ, ಒತ್ತಡ, ಘನ ಫಲ

Q151 **CORRECT** What is the S.I unit of heat? | ಶಾಖದ ಎಸ್‌ಐ ಮೂಲಮಾನ ಯಾವುದು?

A. Calorie | ಕ್ಯಾಲೋರಿ

B. Joule | ಜೌಲ್ □

C. Centigrade heat unit | ಸೆಂಟಿಗ್ರೇಡ್ ಶಾಖ ಘಟಕ

D. British thermal unit | ಬ್ರಿಟಿಷ್ ಉಷ್ಣ ಘಟಕ

Q152 **CORRECT** What is the flow of electrons in any conductor? | ಯಾವುದೇ ಕಂಡಕ್ಟರ್‌ನಲ್ಲಿ ಎಲೆಕ್ಟ್ರಾನ್‌ಗಳ ಹರಿವನ್ನು ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ??

A. Voltage | ವೋಲ್ಟೇಜ್

B. Current | ಕರೆಂಟ್ □

C. Resistance | ಪ್ರತಿರೋಧ

D. Power | ಶಕ್ತಿ