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Student Name	Athrav	Access Code	1635
Attempt No.	#1	Completion Time	01:45 PM
Rank	#1	Total Questions	106

26 SCORE

106 MAX MARKS

26 CORRECT

80 INCORRECT

Answer Review

Q1 **CORRECT** Which machine converts mechanical energy into electrical energy?

A. Battery

B. Generator

C. Heater

D. Iron box

Q2 **INCORRECT** Which is the unit of current?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q3 **INCORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q4 **INCORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current

C. Resistance

D. Power

Q5 **INCORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance

D. EMF

Q6 **INCORRECT** Which is very good conductor?

A. Copper

B. Cast iron

C. Wrought iron

D. Steel

Q7 **CORRECT** Which is mineral insulator

A. Glass

B. Quartz

C. Mica

D. Porcelain

Q8 **INCORRECT** 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. 17 ohms

D. 1/17 ohms

Q9 **INCORRECT** What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A. 10

B. 2.4

C. 5

D. 4

Q10 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current

B. Voltage

C. Resistance

D. Power

Q11 **INCORRECT** Which law states that at constant temperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

A. Ohm's law

B. Lenz's law

C. Newton's law

D. Hooke's law

Q12 **INCORRECT** What is the resistance?

I = 11.5 Amps

V = 380 Volts

R = _____ Ohms

A. 13 ohms

B. 23 ohms

C. 33 ohms

D. 43 ohms

Q13 **CORRECT** What is the current?

R = 50 Ohms

220 Volts

I = _____ Amps

A. 4.1 Amps

B. 4.2 Amps

C. 4.3 Amps

D. 4.4 Amps

Q14 **INCORRECT** What is the voltage?

R = 250 Ohms

I = 0.44 Amps

V = ____Volts

A. 100 Volts

B. 105 Volts

C. 108 Volts

D. 110 Volts

Q15 **CORRECT** Which statement is correct according to ohm's law?

A. $I = 1/V$

B. $I = R$

C. $I = V/R$

D. $I = R/V$

Q16 **INCORRECT** What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

A. 12 W

B. 10 W

C. 3 W

D. 1.2 W

Q17 **INCORRECT** How much watt second in 1 watt hour?

A. 1000 watt sec

B. 2000 watt sec

C. 3600 watt sec

D. 4000 watt sec

Q18 **CORRECT** What is the power if an emf of one volt causes a current flow of 1 ampere?

A. 1 watt

B. 1 kilowatt

C. 1 HP

D. 1 Kilowatt hour

Q19 **INCORRECT** Which is equal to electric power?

A. $R^2 I$ watts

B. $I^2 R$ watts

C. RI

D. IRA

Q20 **INCORRECT** How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

A. 2000 watts

B. 2010 watts

C. 2020 watts

D. 2030 watts

Q21 **INCORRECT** What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

A. 94.8 ohms

B. 95.8 ohms

C. 96.8 ohms

D. 97.8 ohms

Q22 **CORRECT** What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \text{_____}$ Volts

A. 200.3 volts

B. 210.3 volts

C. 220.3 volts

D. 230.3 volts

Q23 **INCORRECT** What is the unit of intensity of magnetic field?

A. wb/m

B. m/wb

C. Hertz

D. Coloumb

Q24 **INCORRECT** Which law states about electromagnetic induction?

A. Ohm's law

B. Hooke's law

C. Lenz's law

D. Faraday's law

Q25 **INCORRECT** What is the formual for induced emf?

A. $B^2 L \sin \theta$ volts

B. $BL \sin \theta$ volts

C. $BLV \sin \theta$ volts

D. $B^2 V \sin \theta$ volts

Q26 **INCORRECT** What does EMF stands for?

A. Electronic Magnetic Force

B. Electro Motive Force

C. Electro Magnetic Force

D. Electromated Force

Q27 **INCORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer

D. Refrigerator

Q28 **CORRECT** Which is the example for dynamically induced Emf?

A. Motor

B. Generator

C. Car

D. Motor bike

Q29 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts

D. Ampere

Q30 **CORRECT** What is the current Flow in the bulb?

$P = 550$ watts

$R = 22$ Ohms

$I = \underline{\hspace{1cm}}$ Amps

A. 2 Amps

B. 3 Amps

C. 4 Amps

D. 5 Amps

Q31 **INCORRECT** What is the power required?

$I = 0.455$ Amps

$R = 484$ Ohms

$P = \underline{\hspace{1cm}}$ Watts

A. 98.2 watts

B. 99.2 watts

C. 100.2 watts

D. 101.2 watts

Q32 **INCORRECT** What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

A. 9.2 watts

B. 9.4 watts

C. 9.6 watts

D. 9.8 watts

Q33 **INCORRECT** How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

A. 390 volts

B. 395 volts

C. 400 volts

D. 405 volts

Q34 **INCORRECT** 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. 12 hours

C. 18 hours

D. 24 hours

Q35 **INCORRECT** What is termed as the quantity of matter contained in a body?

A. Density

B. Volume

C. Mass

D. Specific gravity

Q36 **INCORRECT** What is the force with which a body is attracted by the earth towards its centre?

A. Mass

B. Weight

C. Volume

D. Density

Q37 **CORRECT** What is called mass per unit volume of a substances?

A. Mass

B. Weight

C. Density

D. Volume

Q38 **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

Q39 **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

Q40 **INCORRECT** 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

Q41 **INCORRECT** 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

Q42 **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

Q43 **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

Q44 **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

Q45 **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

Q46 **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

Q47 **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

Q48 **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

Q49 **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

Q50 **INCORRECT** Which one is non-metal?

A. Mercury

B. Graphite

C. Brass

D. Iron

Q51 **INCORRECT** Which metal contains iron as a major content?

A. Brass metal

B. Bronze metal

C. Zinc

D. Ferrous metal

Q52 **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

Q53 **INCORRECT** Which one of the following properties is the mechanical properties of metal?

A. Fusibility

B. Ductility

C. Corrosion

D. Structure

Q54 **CORRECT** Which is brittle metal?

A. Cast iron

B. Steel

C. Mild steel

D. Alloy steel

Q55 **INCORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility

B. Malleability

C. Hardness

D. Toughness

Q56 **INCORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity

C. Ductility

D. Brittleness

Q57 **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

Q58 **CORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity

B. Malleability

C. Fusibility

D. Tenacity

Q59 **INCORRECT** Which alloy used in electric lamp as filament?

A. Cobalt

B. Vanadium

C. Tungsten

D. Silicon

Q60 **INCORRECT** What metals contained in brass alloy?

A. Copper and aluminium

B. Copper and lead

C. Copper and zinc

D. Copper and tin

Q61 **INCORRECT** Which cast iron cannot be welded?

A. Grey cast iron

B. White cast iron

C. Malleable cast iron

D. Nodular cast iron

Q62 **CORRECT** Which metal cannot be forged?

A. Alloy steel

B. Mild steel

C. Steel

D. Cast iron

Q63 **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

Q64 **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

Q65 **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

Q66 **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

Q67 **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%

Q68 **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%

Q69 **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%

Q70 **INCORRECT** What is the ore of aluminium?

A. Hematite

B. Mallatite

C. Bauxite

D. Lemonite

Q71 **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

Q72 **INCORRECT** Which among the following is an insulator?

A. Copper

B. Aluminium

C. Silver

D. Mica

Q73 **INCORRECT** Which rubber is used as insulator for power cables and control wires?

A. Butyl

B. Hypalone

C. Silicon

D. Nitrite butadiene

Q74 **INCORRECT** Which alloy steel is used to make permanent magnets?

A. Silicon steel

B. Manganese steel

C. Vanadium steel

D. Cobalt steel

Q75 **INCORRECT** Which insulator is used in over head lines?

A. Mica

B. Rubber

C. P.V.C

D. Porcelain

Q76 **INCORRECT** Which insulating material is used for making switches?

A. Porcelain

B. PVC

C. Bakelite

D. Ebonite

Q77 **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

Q78 **CORRECT** Which alloy steel is using for making precious instrument?

A. Silicon steel

B. Manganese steel

C. Invar steel

D. Vanadium

Q79 **CORRECT** 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

Q80 **INCORRECT** 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

Q81 **CORRECT** 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

Q82 **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

Q83 **CORRECT** 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

Q84 **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

Q85 **CORRECT** 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

Q86 **CORRECT** What is the perimeter of scalene. Triangle having sides of 40mm, 20mm and 28mm?

A. 68 mm

B. 78 mm

C. 88 mm

D. 98 mm

Q87 **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

Q88 **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

Q89 **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

Q90 **CORRECT** 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

Q91 **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

Q92 **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

Q93 **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

Q94 **CORRECT** 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

Q95 **INCORRECT** What is the formula for total surface area of a cylinder?

A. $2 \pi r (h + r)$

B. $\pi r (h + r)$

C. $\pi r h$

D. $2 \pi r h$

Q96 **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

Q97 **INCORRECT** 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

Q98 **INCORRECT** 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

Q99 **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. $\frac{\pi}{3} (R^2 - r^2) h$

C. $\frac{2}{3} \pi (R^2 - r^2) h$

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

Q100 **INCORRECT** 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

Q101 **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

Q102 **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

Q103 **CORRECT** 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

Q104 **CORRECT** 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

Q105 **CORRECT** What is the unit of speed?

A. Metre/second

B. Metre/second²

C. Metre/minute

D. Metre/hour

Q106 **INCORRECT** What is the formula for velocity?

A. Distance covered/Time

B. Displacement/Time

C. Change in velocity/Time

D. Change of momentum/Time