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Student Name	Prsanjeet pujari	Access Code	3336
Attempt No.	#1	Completion Time	10:40 AM
Rank	#1	Total Questions	66

19 SCORE

66 MAX MARKS

19 CORRECT

47 INCORRECT

Answer Review

Q1 **INCORRECT** 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 **CORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm

D. Watt

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

A. Voltage

B. Current

C. Resistance

D. Power

Q5 **CORRECT** 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 **INCORRECT** Which is mineral insulator

A. Glass

B. Quartz

C. Mica

D. Porcelain

Q8 **CORRECT** 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 **INCORRECT** 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

$R = \underline{\hspace{2cm}}$ Ohms

A. 13 ohms

B. 23 ohms

C. 33 ohms

D. 43 ohms

Q13 **INCORRECT** What is the current?

$R = 50$ Ohms

220 Volts

$I = \underline{\hspace{2cm}}$ 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 **INCORRECT** 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 **CORRECT** 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 **INCORRECT** What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \underline{\hspace{2cm}}$ 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 **CORRECT** 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 formula 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 **CORRECT** 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 **INCORRECT** Which is the example for dynamicallly induced Emf?

A. Motor

B. Generator

C. Car

D. Motor bike

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

A. Volts

B. Ohms

C. Watts

D. Ampere

Q30 **INCORRECT** 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 **CORRECT** 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 **CORRECT** 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 **INCORRECT** What is called mass per unit volume of a substances?

A. Mass

B. Weight

C. Density

D. Volume

Q38 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **CORRECT** Which one of the following properties is the mechanical properties of metal?

A. Fusibility

B. Ductility

C. Corrosion

D. Structure

Q54 **INCORRECT** Which is brittle metal?

A. Cast iron

B. Steel

C. Mild steel

D. Alloy steel

Q55 **CORRECT** 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 **INCORRECT** 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 **CORRECT** What metals contained in brass alloy?

A. Copper and aluminium

B. Copper and lead

C. Copper and zinc

D. Copper and tin

Q61 **CORRECT** 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