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Student Name	Subhan Tamboli	Access Code	2481
Attempt No.	#1	Completion Time	10:16 AM
Rank	#1	Total Questions	55

55 SCORE

55 MAX MARKS

55 CORRECT

0 INCORRECT

Answer Review

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

A. Battery

B. Generator ☒

C. Heater

D. Iron box

Q2 **CORRECT** 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 **CORRECT** 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 **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 **CORRECT** 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 **CORRECT** 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 **CORRECT** What is the resistance?

$I = 11.5$ Amps

$V = 380$ Volts

$R = \underline{\hspace{1cm}}$ Ohms

A. 13 ohms

B. 23 ohms

C. 33 ohms ☒

D. 43 ohms

Q13 **CORRECT** 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. $B^2 L^2 V \sin \theta$ volts

Q14 **CORRECT** What does EMF stand for?

A. Electronic Magnetic Force

B. Electro Motive Force ☒

C. Electro Magnetic Force

D. Electromated Force

Q15 **CORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer ☒

D. Refrigerator

Q16 **CORRECT** Which is the example for dynamically induced Emf?

A. Motor

B. Generator ☒

C. Car

D. Motor bike

Q17 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts ☒

D. Ampere

Q18 **CORRECT** What is the current Flow in the bulb?

$P = 550 \text{ watts}$

$R = 22 \text{ Ohms}$

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

A. 2 Amps

B. 3 Amps

C. 4 Amps

D. 5 Amps ☒

Q19 **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

Q20 **CORRECT** 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

Q21 **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

Q22 **CORRECT** How many hours will take for a 100 watts bulb to consume 1 kwh energy?

$W = 1 \text{ Kwh}$

$P = 100 \text{ Watts}$

$t = \text{ ______ } \text{Hours}$

A. 10 hours ☐

B. 12 hours

C. 18 hours

D. 24 hours

Q23 **CORRECT** What is termed as the quantity of matter contained in a body?

A. Density

B. Volume

C. Mass ☐

D. Specific gravity

Q24 **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

Q25 **CORRECT** What is called mass per unit volume of a substances?

A. Mass

B. Weight

C. Density ☐

D. Volume

Q26 **CORRECT** What is called the ratio between the density of a substance's density of water at 4 Degree Centigrade?

A. Density

B. Specific gravity ☒

C. Mass

D. Weight

Q27 **CORRECT** 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

Q28 **CORRECT** What 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

Q29 **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 ☒

Q30 **CORRECT** 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 ☒

Q31 **CORRECT** 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

Q32 **CORRECT** 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 ☒

Q33 **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

Q34 **CORRECT** 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 ☒

Q35 **CORRECT** 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

Q36 **CORRECT** 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

Q37 **CORRECT** What is the weight force of a car has a mass of 800 kg?(Take $g = 9.81 \text{ m/sec}^2$)

A. 7848 Newton ☒

B. 7748 Newton

C. 7847 Newton

D. 7487 Newton

Q38 **CORRECT** Which one is non-metal?

A. Mercury

B. Graphite ☒

C. Brass

D. Iron

Q39 **CORRECT** Which metal contains iron as a major content?

A. Brass metal

B. Bronze metal

C. Zinc

D. Ferrous metal ☒

Q40 **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

Q41 **CORRECT** Which one of the following properties is the mechanical properties of metal?

A. Fusibility

B. Ductility ☒

C. Corrosion

D. Structure

Q42 **CORRECT** Which is brittle metal?

A. Cast iron ☒

B. Steel

C. Mild steel

D. Alloy steel

Q43 **CORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility

B. Malleability

C. Hardness ☒

D. Toughness

Q44 **CORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity ☒

C. Ductility

D. Brittleness

Q45 **CORRECT** 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

Q46 **CORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity

B. Malleability

C. Fusibility ☒

D. Tenacity

Q47 **CORRECT** Which alloy used in electric lamp as filament?

A. Cobalt

B. Vanadium

C. Tungsten ☒

D. Silicon

Q48 **CORRECT** What metals contained in brass alloy?

A. Copper and aluminium

B. Copper and lead

C. Copper and zinc ☒

D. Copper and tin

Q49 **CORRECT** Which cast iron cannot be welded?

A. Grey cast iron

B. White cast iron ☒

C. Malleable cast iron

D. Nodular cast iron

Q50 **CORRECT** Which metal cannot be forged?

A. Alloy steel

B. Mild steel

C. Steel

D. Cast iron ☒

Q51 **CORRECT** 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

Q52 **CORRECT** Which furnace is used to get pig iron from iron ore?

A. Mild steel - Rever battery

B. Electric furnace

C. Blast furnace ☒

D. Cupola

Q53 **CORRECT** 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

Q54 **CORRECT** What is the other name of low carbon steel?

- A. Low alloy steel
- B. High alloy steel
- C. High speed steel
- D. Mild steel ☒

Q55 **CORRECT** 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%