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68.89% 62 / 90

Student Name	Chirag	Access Code	6963
Attempt No.	#1	Completion Time	02:12 PM
Rank	#12	Total Questions	90

62 SCORE

90 MAX MARKS

62 CORRECT

28 INCORRECT

Answer Review

Q1 **INCORRECT** 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 **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 **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 **INCORRECT** 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 current?

$R = 50$ Ohms

220 Volts

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

A. 4.1 Amps

B. 4.2 Amps

C. 4.3 Amps

D. 4.4 Amps ☒

Q14 **CORRECT** What is the voltage?

$R = 250 \text{ Ohms}$

$I = 0.44 \text{ Amps}$

$V = \text{ ______ } \text{ Volts}$

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. $I = R \square$

C. $I = V/R \square$

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 **CORRECT** Which is equal to electric power?

A. $R^2 I$ watts

B. $I^2 R$ watts ☒

C. RI

D. IRA

Q20 **CORRECT** 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 **CORRECT** 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^2 ☒

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 **CORRECT** What is the formual for induced emf?

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

B. $BL \sin \theta$ volts

C. $BLV \sin \theta$ ☒

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

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

A. Electronic Magnetic Force

B. Electro Motive Force ☒

C. Electro Magnetic Force

D. Electromated Force

Q27 **CORRECT** 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 **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?

$P = 550 \text{ watts}$

$R = 22 \text{ Ohms}$

$I = \text{ ______ } \text{ Amps}$

A. 2 Amps

B. 3 Amps

C. 4 Amps

D. 5 Amps ☒

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

$I = 0.455 \text{ Amps}$

$R = 484 \text{ Ohms}$

$P = \text{ ______ } \text{ Watts}$

A. 98.2 watts

B. 99.2 watts

C. 100.2 watts ☒

D. 101.2 watts

Q32 **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

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

A. Mercury

B. Graphite ☐

C. Brass

D. Iron

Q36 **CORRECT** Which metal contains iron as a major content?

A. Brass metal

B. Bronze metal

C. Zinc

D. Ferrous metal ☐

Q37 **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

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

A. Fusibility

B. Ductility ☒

C. Corrosion

D. Structure

Q39 **CORRECT** Which is brittle metal?

A. Cast iron ☒

B. Steel

C. Mild steel

D. Alloy steel

Q40 **CORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility

B. Malleability

C. Hardness ☒

D. Toughness

Q41 **CORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity ☒

C. Ductility

D. Brittleness

Q42 **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

Q43 **CORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity

B. Malleability

C. Fusibility ☒

D. Tenacity

Q44 **INCORRECT** Which alloy used in electric lamp as filament?

A. Cobalt

B. Vanadium ☐

C. Tungsten ☒

D. Silicon

Q45 **INCORRECT** What metals contained in brass alloy?

A. Copper and aluminium

B. Copper and lead ☐

C. Copper and zinc ☐

D. Copper and tin

Q46 **INCORRECT** Which cast iron cannot be welded?

A. Grey cast iron

B. White cast iron ☐

C. Malleable cast iron ☐

D. Nodular cast iron

Q47 **INCORRECT** Which metal cannot be forged?

A. Alloy steel ☐

B. Mild steel

C. Steel

D. Cast iron ☐

Q48 **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

Q49 **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

Q50 **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 ☐

Q51 **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 ☒

Q52 **CORRECT** What is the ore of aluminium?

A. Hematite

B. Mallatite

C. Bauxite ☒

D. Lemonite

Q53 **CORRECT** 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

Q54 **CORRECT** Which among the following is an insulator?

A. Copper

B. Aluminium

C. Silver

D. Mica ☒

Q55 **INCORRECT** Which rubber is used as insulator for power cables and control wires?

A. Butyl

B. Hypalone ☐

C. Silicon ☒

D. Nitrite butadiene

Q56 **CORRECT** Which alloy steel is used to make permanent magnets?

A. Silicon steel

B. Manganese steel

C. Vanadium steel

D. Cobalt steel ☒

Q57 **INCORRECT** Which insulator is used in over head lines?

A. Mica

B. Rubber ☐

C. P.V.C

D. Porcelain ☐

Q58 **CORRECT** Which insulating material is used for making switches?

A. Porcelain

B. PVC

C. Bakelite ☐

D. Ebonite

Q59 **CORRECT** 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

Q60 **CORRECT** Which alloy steel is using for making precious instrument?

A. Silicon steel

B. Manganese steel

C. Invar steel ☐

D. Vanadium

Q61 **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

Q62 **CORRECT** What is the square root of 0.017?

- A. 0.001
- B. 0.13 ☒
- C. 0.00001
- D. 0.000001

Q63 **CORRECT** 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

Q64 **INCORRECT** What is the ratio of 4 kg to 800 grams?

- A. 05:01 ☒
- B. 04:08 ☐
- C. 08:04
- D. 02:04

Q65 **CORRECT** What percentage of 80 is 20?

A. 0.8

B. 0.4

C. 0.25 ☒

D. 0.2

Q66 **CORRECT** How much is 8% of 40 kg?

A. 2.2 kg

B. 3.2 kg ☒

C. 4.2 kg

D. 5.2 kg

Q67 **CORRECT** Convert 52% into fraction?

A. (9/25)

B. (11/25)

C. (13/25) ☒

D. (17/25)

Q68 **CORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456

C. 45.6 ☒

D. 0.000456

Q69 **INCORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6 ☐

C. 8 ☐

D. 10

Q70 **INCORRECT** What is the square root of decimal number 550.37?

A. 21.26

B. 22.26 ☐

C. 22.46

D. 23.46 ☐

Q71 **INCORRECT** 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 ☐

Q72 **CORRECT** 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

Q73 **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 ☐

Q74 **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%

Q75 **CORRECT** 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

Q76 **CORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185 ☐

B. 0.175

C. 0.165

D. 0.195

Q77 **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 ☐

Q78 **INCORRECT** What are fundamental units?

A. Length, Mass, Volume

B. Length, Mass, Time ☒

C. Length, Mass, Area ☐

D. Length, Pressure, Volume

Q79 **CORRECT** What denotes letter M in MKS system?

A. Mile

B. Meter ☒

C. Millimeter

D. Micron

Q80 **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

Q81 **CORRECT** What is the LCM of 12, 18, 6, 36?

A. 12

B. 18

C. 36 ☒

D. 42

Q82 **CORRECT** What is the HCF of 18, 42, 24?

A. 2

B. 6 ☒

C. 18

D. 24

Q83 **CORRECT** 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. " $\frac{7}{28}$ "

Q84 **CORRECT** Convert decimal 0.000659 to fraction?

A. $\frac{659}{1000}$

B. $\frac{659}{10000}$

C. $\frac{659}{100000}$

D. $\frac{659}{1000000}$ ☒

Q85 **CORRECT** Simplify: $(3/4) + (2/5) - (5/20)$

A. $(3/10)$

B. $(9/10)$ ☒

C. $(12/10)$

D. $(13/10)$

Q86 **CORRECT** Divide $(20/31)/(15/62)$

A. $2(4/3)$

B. $2(1/3)$

C. $2(3/2)$

D. $2(2/3)$ ☒

Q87 **INCORRECT** What is the product of 0.003×0.5 ?

A. 0.00015 ☐

B. 0.0015 ☒

C. 0.015

D. 0.15

Q88 **INCORRECT** Simplify: $(17.49 \times 5.2)/(6.5)$

A. 13.69

B. 13.79 ☐

C. 13.89

D. 13.99 ☒

Q89 **CORRECT** 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

Q90 **CORRECT** What is the square root of 529?

A. 12

B. 23 ☒

C. 33

D. 43