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82.22% 74 / 90

Student Name	Manish	Access Code	3599
Attempt No.	#1	Completion Time	02:24 PM
Rank	#7	Total Questions	90

74 SCORE

90 MAX MARKS

74 CORRECT

16 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 **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

$R = \underline{\hspace{2cm}}$ 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 **CORRECT** 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 **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 **CORRECT** 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 = _____Volts

A. 200.3 volts

B. 210.3 volts

C. 220.3 volts

D. 230.3 volts

Q23 **CORRECT** 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 **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. $B^2 V \sin \theta$ volts

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

A. Electronic Magnetic Force

B. Electro Motive Force

C. Electro Magnetic Force

D. Electromated Force

Q27 **CORRECT** 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 **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 **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 **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 **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 **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

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 **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

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

A. Conductivity

B. Malleability

C. Fusibility

D. Tenacity

Q44 **CORRECT** 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 **CORRECT** 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 **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

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

A. 4

B. 6

C. 8

D. 10

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

A. 21.26

B. 22.26

C. 22.46

D. 23.46

Q71 **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

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

A. 0.00015

B. 0.0015

C. 0.015

D. 0.15

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

A. 13.69

B. 13.79

C. 13.89

D. 13.99

Q89 **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

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

A. 12

B. 23

C. 33

D. 43