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Student Name	Rihan	Access Code	4041
Attempt No.	#1	Completion Time	02:47 PM
Rank	#1	Total Questions	61

54 SCORE

61 MAX MARKS

54 CORRECT

7 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** 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

Q8 **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 ☐

Q9 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current ☒

B. Voltage

C. Resistance

D. Power

Q10 **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

Q11 **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

Q12 **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 ☒

Q13 **CORRECT** What is the voltage?

$R = 250$ Ohms

$I = 0.44$ Amps

$V = \underline{\hspace{1cm}}$ Volts

A. 100 Volts

B. 105 Volts

C. 108 Volts

D. 110 Volts ☒

Q14 **CORRECT** Which statement is correct according to ohm's law?

A. $I = 1/V$

B. $I = R$

C. $I = V/R$ ☒

D. $I = R/V$

Q15 **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

Q16 **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

Q17 **CORRECT** What is the power if an emf of one volt causes a current flow of 1ampere?

A. 1 watt ☒

B. 1 kilowatt

C. 1 HP

D. 1 Kilowatt hour

Q18 **INCORRECT** Which is equal to electric power?

A. $R^2 I$ watts ☐

B. $I^2 R$ watts ☐

C. RI

D. IRA

Q19 **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

Q20 **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

Q21 **INCORRECT** What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \underline{\hspace{1cm}}$ Volts

A. 200.3 volts

B. 210.3 volts ☐

C. 220.3 volts ☐

D. 230.3 volts

Q22 **CORRECT** What is the unit of intensity of magnetic field?

A. wb/m ☐

B. m/wb

C. Hertz

D. Coloumb

Q23 **CORRECT** Which law states about electromagnetic induction?

A. Ohm's law

B. Hooke's law

C. Lenz's law

D. Faraday's law ☐

Q24 **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. $B^2 V \sin \theta$ volts

Q25 **CORRECT** What does EMF stand for?

A. Electronic Magnetic Force

B. Electro Motive Force ☐

C. Electro Magnetic Force

D. Electromated Force

Q26 **CORRECT** Which is the example for dynamically induced Emf?

A. Motor

B. Generator ☒

C. Car

D. Motor bike

Q27 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts ☒

D. Ampere

Q28 **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 ☒

Q29 **INCORRECT** What is the power required?

$I = 0.455 \text{ Amps}$

$R = 484 \text{ Ohms}$

$P = \text{ ______ Watts}$

A. 98.2 watts

B. 99.2 watts ☐

C. 100.2 watts ☒

D. 101.2 watts

Q30 **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

Q31 **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

Q32 **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

Q33 **INCORRECT** What is the square root of 0.017?

A. 0.001

B. 0.13 ☒

C. 0.00001

D. 0.000001 ☐

Q34 **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

Q35 **CORRECT** What is the ratio of 4 kg to 800 grams?

A. 05:01 ☒

B. 04:08

C. 08:04

D. 02:04

Q36 **CORRECT** What percentage of 80 is 20?

A. 0.8

B. 0.4

C. 0.25 ☒

D. 0.2

Q37 **CORRECT** How much is 8% of 40 kg?

A. 2.2 kg

B. 3.2 kg ☒

C. 4.2 kg

D. 5.2 kg

Q38 **CORRECT** Convert 52% into fraction?

A. (9/25)

B. (11/25)

C. (13/25) ☒

D. (17/25)

Q39 **INCORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456

C. 45.6 ☒

D. 0.000456 ☐

Q40 **CORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6

C. 8 ☒

D. 10

Q41 **CORRECT** What is the square root of decimal number 550.37?

A. 21.26

B. 22.26

C. 22.46

D. 23.46 ☒

Q42 **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

Q43 **INCORRECT** 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 ☐

Q44 **CORRECT** 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 ☒

Q45 **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%

Q46 **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

Q47 **CORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185 ☒

B. 0.175

C. 0.165

D. 0.195

Q48 **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

Q49 **CORRECT** What are fundamental units?

- A. Length, Mass, Volume
- B. Length, Mass, Time ☒
- C. Length, Mass, Area
- D. Length, Pressure, Volume

Q50 **CORRECT** What denotes letter M in MKS system?

- A. Mile
- B. Meter ☒
- C. Millimeter
- D. Micron

Q51 **CORRECT** How many millimetres are there in 1 inch?

- A. 2.54 mm
- B. 25.4 mm ☒
- C. 24.5 mm
- D. 2.45 mm

Q52 **CORRECT** What is the LCM of 12, 18, 6, 36?

A. 12

B. 18

C. 36 ☒

D. 42

Q53 **CORRECT** What is the HCF of 18, 42, 24?

A. 2

B. 6 ☒

C. 18

D. 24

Q54 **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. $\frac{7}{28}$

Q55 **CORRECT** Convert decimal 0.000659 to fraction?

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

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

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

D. $\frac{659}{1000000}$ ☒

Q56 **CORRECT** Simplify: $(3/4) + (2/5) - (5/20)$

A. $(3/10)$

B. $(9/10)$ ☒

C. $(12/10)$

D. $(13/10)$

Q57 **CORRECT** Divide $(20/31)/(15/62)$

A. $2(4/3)$

B. $2(1/3)$

C. $2(3/2)$

D. $2(2/3)$ ☒

Q58 **CORRECT** What is the product of 0.003×0.5 ?

A. 0.00015

B. 0.0015 ☒

C. 0.015

D. 0.15

Q59 **CORRECT** Simplify: $(17.49 \times 5.2)/(6.5)$

A. 13.69

B. 13.79

C. 13.89

D. 13.99 ☒

Q60 **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

Q61 **CORRECT** What is the square root of 529?

A. 12

B. 23 ☒

C. 33

D. 43