

Trinity ITI udyavara Udupi

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93.33% 56 / 60

Student Name	Vishal v acharya	Access Code	2049
Attempt No.	#1	Completion Time	02:39 PM
Rank	#2	Total Questions	60

56 SCORE

60 MAX MARKS

56 CORRECT

4 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 **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 **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 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 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 **INCORRECT** 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 = ____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 does EMF stands for?

A. Electronic Magnetic Force

B. Electro Motive Force

C. Electro Magnetic Force

D. Electromated Force

Q26 **INCORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer

D. Refrigerator

Q27 **CORRECT** Which is the example for dynamically induced Emf?

A. Motor

B. Generator

C. Car

D. Motor bike

Q28 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts

D. Ampere

Q29 **CORRECT** What is the current Flow in the bulb?

P = 550 watts

R = 22 Ohms

I = ____Amps

A. 2 Amps

B. 3 Amps

C. 4 Amps

D. 5 Amps

Q30 **CORRECT** What is the power required?

I = 0.455 Amps

R = 484 Ohms

P = ____ Watts

A. 98.2 watts

B. 99.2 watts

C. 100.2 watts

D. 101.2 watts

Q31 **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

Q32 **CORRECT** What is the square root of 0.017?

A. 0.001

B. 0.13

C. 0.00001

D. 0.000001

Q33 **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

Q34 **CORRECT** What is the ratio of 4 kg to 800 grams?

A. 05:01

B. 04:08

C. 08:04

D. 02:04

Q35 **CORRECT** What percentage of 80 is 20?

A. 0.8

B. 0.4

C. 0.25

D. 0.2

Q36 **CORRECT** How much is 8% of 40 kg?

A. 2.2 kg

B. 3.2 kg

C. 4.2 kg

D. 5.2 kg

Q37 **CORRECT** Convert 52% into fraction?

A. (9/25)

B. (11/25)

C. (13/25)

D. (17/25)

Q38 **CORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456

C. 45.6 %

D. 0.000456

Q39 **CORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6

C. 8 %

D. 10

Q40 **CORRECT** What is the square root of decimal number 550.37?

A. 21.26

B. 22.26

C. 22.46

D. 23.46 %

Q41 **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

Q42 **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

Q43 **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

Q44 **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%

Q45 **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

Q46 **CORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185

B. 0.175

C. 0.165

D. 0.195

Q47 **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

Q48 **CORRECT** What are fundamental units?

A. Length, Mass, Volume

B. Length, Mass, Time

C. Length, Mass, Area

D. Length, Pressure, Volume

Q49 **CORRECT** What denotes letter M in MKS system?

A. Mile

B. Meter

C. Millimeter

D. Micron

Q50 **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

Q51 **CORRECT** What is the LCM of 12, 18, 6, 36?

A. 12

B. 18

C. 36

D. 42

Q52 **CORRECT** What is the HCF of 18, 42, 24?

A. 2

B. 6

C. 18

D. 24

Q53 **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. " $\frac{7}{28}$ "

Q54 **CORRECT** Convert decimal 0.000659 to fraction?

A. $(659/1000)$

B. $(659/10000)$

C. $(659/100000)$

D. $(659/1000000)$

Q55 **CORRECT** Simplify: $(3/4) + (2/5) - (5/20)$

A. $(3/10)$

B. $(9/10)$

C. $(12/10)$

D. $(13/10)$

Q56 **CORRECT** Divide $(20/31) / (15/62)$

A. $2(4/3)$

B. $2(1/3)$

C. $2(3/2)$

D. $2(2/3)$

Q57 **CORRECT** What is the product of 0.003×0.5 ?

A. 0.00015

B. 0.0015

C. 0.015

D. 0.15

Q58 **CORRECT** Simplify: $(17.49 \times 5.2) / (6.5)$

A. 13.69

B. 13.79

C. 13.89

D. 13.99

Q59 **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

Q60 **CORRECT** What is the square root of 529?

A. 12

B. 23

C. 33

D. 43