

Trinity iti Udupi

ITI Quiz - 02-Mar-2026 02:11 PM

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89.80% 44 / 49

Student Name	Prajwal r	Access Code	1867
Attempt No.	#1	Completion Time	04:10 PM
Rank	#3	Total Questions	49

44 SCORE

49 MAX MARKS

44 CORRECT

5 INCORRECT

Answer Review

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

A. Battery

B. Generator ☒

C. Heater

D. Iron box

Q2 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current ☒

C. Resistance

D. Power

Q3 **CORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance ☒

D. EMF

Q4 **CORRECT** Which is very good conductor?

A. Copper ☒

B. Cast iron

C. Wrought iron

D. Steel

Q5 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current ☒

B. Voltage

C. Resistance

D. Power

Q6 **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

Q7 **INCORRECT** 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

Q8 **CORRECT** Which statement is correct according to ohm's law?

A. $I = 1/V$

B. $I = R$

C. $I = V/R$ ☐

D. $I = R/V$

Q9 **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

Q10 **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

Q11 **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

Q12 **CORRECT** Which is equal to electric power?

A. $R^2 I$ watts

B. $I^2 R$ watts ☒

C. RI

D. IRA

Q13 **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

Q14 **INCORRECT** What is the unit of intensity of magnetic field?

A. wb/m ☒

B. m/wb ☐

C. Hertz

D. Coloumb

Q15 **CORRECT** Which law states about electromagnetic induction?

A. Ohm's law

B. Hooke's law

C. Lenz's law

D. Faraday's law ☒

Q16 **CORRECT** What does EMF stands for?

A. Electronic Magnetic Force

B. Electro Motive Force ☒

C. Electro Magnetic Force

D. Electromated Force

Q17 **CORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer ☒

D. Refrigerator

Q18 **CORRECT** Which is the example for dynamically induced Emf?

A. Motor

B. Generator ☒

C. Car

D. Motor bike

Q19 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts ☒

D. Ampere

Q20 **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 ☒

Q21 **CORRECT** What is the square root of 0.017?

A. 0.001

B. 0.13 ☒

C. 0.00001

D. 0.000001

Q22 **INCORRECT** 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 ☐

Q23 **CORRECT** What is the ratio of 4 kg to 800 grams?

A. 05:01 ☐

B. 04:08

C. 08:04

D. 02:04

Q24 **CORRECT** What percentage of 80 is 20?

A. 0.8

B. 0.4

C. 0.25 ☐

D. 0.2

Q25 **CORRECT** How much is 8% of 40 kg?

A. 2.2 kg

B. 3.2 kg ☐

C. 4.2 kg

D. 5.2 kg

Q26 **CORRECT** Convert 52% into fraction?

A. (9/25)

B. (11/25)

C. (13/25) ☐

D. (17/25)

Q27 **CORRECT** Convert 0.456 decimal fraction into percentage?

A. 0.456

B. 0.0456

C. 45.6 %

D. 0.000456

Q28 **CORRECT** What is the x value for $x^2 + 62 = 126$?

A. 4

B. 6

C. 8 %

D. 10

Q29 **CORRECT** What is the square root of decimal number 550.37?

A. 21.26

B. 22.26

C. 22.46

D. 23.46 %

Q30 **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

Q31 **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

Q32 **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 ☒

Q33 **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%

Q34 **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

Q35 **CORRECT** What is the decimal fraction of conversion of 18.5%?

A. 0.185 ☒

B. 0.175

C. 0.165

D. 0.195

Q36 **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

Q37 **CORRECT** What are fundamental units?

A. Length, Mass, Volume

B. Length, Mass, Time ☒

C. Length, Mass, Area

D. Length, Pressure, Volume

Q38 **CORRECT** What denotes letter M in MKS system?

A. Mile

B. Meter ☒

C. Millimeter

D. Micron

Q39 **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

Q40 **CORRECT** What is the LCM of 12, 18, 6, 36?

A. 12

B. 18

C. 36 ☒

D. 42

Q41 **CORRECT** What is the HCF of 18, 42, 24?

A. 2

B. 6 ☒

C. 18

D. 24

Q42 **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. $\frac{7}{28}$

Q43 **CORRECT** Convert decimal 0.000659 to fraction?

A. $(659/1000)$

B. $(659/10000)$

C. $(659/100000)$

D. $(659/1000000)$ ☒

Q44 **CORRECT** Simplify: $(3/4) + (2/5) - (5/20)$

A. $(3/10)$

B. $(9/10)$ ☒

C. $(12/10)$

D. $(13/10)$

Q45 **CORRECT** Divide $(20/31)/(15/62)$

A. $2(4/3)$

B. $2(1/3)$

C. $2(3/2)$

D. $2(2/3)$ ☒

Q46 **CORRECT** What is the product of 0.003×0.5 ?

A. 0.00015

B. 0.0015 ☒

C. 0.015

D. 0.15

Q47 **CORRECT** Simplify: $(17.49 \times 5.2) / (6.5)$

A. 13.69

B. 13.79

C. 13.89

D. 13.99 ☒

Q48 **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

Q49 **CORRECT** What is the square root of 529?

A. 12

B. 23 ☒

C. 33

D. 43