

Trinity ITI

ITI Quiz - 06-May-2026 03:45 PM

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Attempt No.	#1	Completion Time	03:52 PM
Rank	#1	Total Questions	25

20 SCORE

25 MAX MARKS

20 CORRECT

5 INCORRECT

Answer Review

Q1 **CORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance

D. EMF

Q2 **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

Q3 **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

Q4 **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

Q5 **INCORRECT** What is the formual 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

Q6 **INCORRECT** Which is the unit electrical power?

- A. Volts
- B. Ohms
- C. Watts
- D. Ampere

Q7 **INCORRECT** What is the density of aluminium?

A. 2.7 g/cm^3

B. 3.7 g/cm^3

C. 4.7 g/cm^3

D. 5.7 g/cm^3

Q8 **CORRECT** What is the block weighs (W) in kg, if volume (V) is 320 cm^3 and density 8.9 g/cm^3 ?

A. 2.948 kg

B. 2.848 kg

C. 2.648 kg

D. 2.448

Q9 **CORRECT** Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A. Ductility

B. Malleability

C. Hardness

D. Toughness

Q10 **CORRECT** Which property of material enables to formation of permanent deformation without fracture?

A. Elasticity

B. Plasticity

C. Ductility

D. Brittleness

Q11 **INCORRECT** Which property of a metal possessed by it melts when heat is applied?

A. Conductivity

B. Malleability

C. Fusibility

D. Tenacity

Q12 **CORRECT** Which cast iron cannot be welded?

A. Grey cast iron

B. White cast iron

C. Malleable cast iron

D. Nodular cast iron

Q13 **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

Q14 **CORRECT** What is the diagonal of a square plate whose side is 28 cm?

A. 39.29 cm

B. 39.39 cm

C. 39.49 cm

D. 39.59 cm

Q15 **CORRECT** What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?

A. 56 cm

B. 66 cm

C. 76 cm

D. 86 mm

Q16 **CORRECT** What is the area of a (A) semicircle whose dia is 20 cm (d)?

A. 147.1 cm^2

B. 157.1 cm^2

C. 167.1 cm^2

D. 177.1 cm^2

Q17 **CORRECT** What is the cross sectional area of a circular ring of $D = 38 \text{ mm}$ $d = 32 \text{ mm}$?

A. 320 mm^2

B. 330 mm^2

C. 340 mm^2

D. 350 mm^2

Q18 **CORRECT** What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

A. 20.39 cm^2

B. 20.93 cm^2

C. 20.89 cm^2

D. 20.98 cm^2

Q19 **CORRECT** Find the total surface area of a cast iron bar whose length, width and height are 20m, 15m and 12m.

A. 1340 m^2

B. 1440 m^2

C. 1540 m^2

D. 1640 m^2

Q20 **INCORRECT** How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

A. 1766.25 liters

B. 1767.25 liters

C. 1768.25 liters

D. 1769.25 liters

Q21 **CORRECT** What is the speed of a train of 80 metre long train passes a railway station platform of 120 metres length in 20 seconds?

A. 30 km/hour

B. 32 km/hour

C. 34 km/hour

D. 36 km/hour

Q22 **CORRECT** What is the ratio of power output to power input?

A. Work

B. Energy

C. Efficiency

D. Acceleration

Q23 **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

Q24 **CORRECT** Simplify: $(17.49 \times 5.2) / (6.5)$

A. 13.69

B. 13.79

C. 13.89

D. 13.99

Q25 **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