

ITI Quiz - 06-May-2026

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Q. ID: ITISKILL6124VO

May 2026

Trinity ITI

Answer Key

Duration: 30 Mins

Total Marks: 25

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1. What is the name of furnace to obtained cast iron?

- A) Mild steel - Blast furnace B) Steel - Rever battery
C) Cupola D) Alloy metal - Electric furnace

Answer: C) Cupola

2. Which property of a substance is opposing the flow of electric current?

- A) Voltage B) EMF
C) Resistance D) Current

Answer: C) Resistance

3. Simplify: $(17.49 \times 5.2) / (6.5)$

- A) 13.79 B) 13.69
C) 13.89 D) 13.99

Answer: D) 13.99

4. 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) 32 km/hour B) 34 km/hour
C) 30 km/hour D) 36 km/hour

Answer: D) 36 km/hour

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

- A) 1640 m^2 B) 1440 m^2
C) 1540 m^2 D) 1340 m^2

Answer: B) 1440 m^2

6. Which property of a metal possessed by it melts when heat is applied?

- A) Fusibility B) Malleability
C) Conductivity D) Tenacity

Answer: A) Fusibility

7. Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

- A) Toughness B) Hardness
C) Malleability D) Ductility

Answer: B) Hardness

8. 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) Hooke's law B) Lenz's law
C) Newton's law D) Ohm's law

Answer: D) Ohm's law

9. What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

- A) 20.89 cm^2 B) 20.98 cm^2
C) 20.39 cm^2 D) 20.93 cm^2

Answer: D) 20.93 cm^2

10. What is the cross sectional area of a circular ring of D = 38 mm d = 32mm?

- A) 350 mm^2 B) 320 mm^2
C) 340 mm^2 D) 330 mm^2

Answer: D) 330 mm^2

11. What is the ratio of power output to power input?

- A) Efficiency B) Work
C) Acceleration D) Energy

Answer: A) Efficiency

12. Which cast iron cannot be welded?

- A) Malleable cast iron B) Grey cast iron
C) White cast iron D) Nodular cast iron

Answer: C) White cast iron

13. What is the diagonal of a square plate whose side is 28 cm?

- A) 39.59 cm B) 39.39 cm
C) 39.29 cm D) 39.49 cm

Answer: A) 39.59 cm

14. What is the density of aluminium?

- A) 2.7 g/cm^3 B) 5.7 g/cm^3
C) 3.7 g/cm^3 D) 4.7 g/cm^3

Answer: A) 2.7 g/cm^3

15. What is the length of each part is a copper wire of 225 metre long is cut into 900 equal parts?

- A) 0.29 metre B) 0.23 metre
C) 0.25 metre D) 0.28 metre

Answer: C) 0.25 metre

16. How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

- A) 1768.25 liters B) 1767.25 liters
C) 1769.25 liters D) 1766.25 liters

Answer: D) 1766.25 liters

17. What is the block weighs (W) in kg, if volume (V) is 320 cm³ and density 8.9 g/cm³?

- A) 2.648 kg B) 2.448
C) 2.948 kg D) 2.848 kg

Answer: D) 2.848 kg

18. What is the area of a (A) semicircle whose dia is 20 cm (d)?

- A) 167.1 cm² B) 177.1 cm²
C) 157.1 cm² D) 147.1 cm²

Answer: C) 157.1 cm²

19. 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 260
C) Rs 220 D) Rs 240

Answer: D) Rs 240

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

- A) 76 cm B) 66 cm
C) 56 cm D) 86 mm

Answer: A) 76 cm

21. How much watt second in 1 watt hour?

- A) 1000 watt sec B) 2000 watt sec
C) 4000 watt sec D) 3600 watt sec

Answer: D) 3600 watt sec

22. Which property of material enables to formation of permanent deformation without fracture?

- A) Plasticity B) Elasticity
C) Brittleness D) Ductility

Answer: A) Plasticity

23. How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

- A) 2030 watts B) 2000 watts
C) 2020 watts D) 2010 watts

Answer: B) 2000 watts

24. What is the formula for induced emf?

- A) $BLV \sin \theta$ volts B) $BL \sin \theta$ volts
C) $B^2 V \sin \theta$ volts D) $B^2 L \sin \theta$ volts

Answer: A) $BLV \sin \theta$ volts

25. Which is the unit electrical power?

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

Answer: B) Watts