

02:08 PM

March 2026

Trinity iti Udupi

Answer Key

Duration: 60 Mins

Total Marks: 49

Q.ID: ITISKILL29330R

1. How many millimetres are there in 1 inch?

- A) 2.54 mm B) 24.5 mm
C) 25.4 mm D) 2.45 mm

Answer: C) 25.4 mm

2. Which is very good conductor?

- A) Copper B) Cast iron
C) Wrought iron D) Steel

Answer: A) Copper3. What is the voltage?
 R = 250 Ohms
 I = 0.44 Amps
 V = ____ Volts

- A) 108 Volts B) 100 Volts
C) 105 Volts D) 110 Volts

Answer: D) 110 Volts

4. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

- A) 11 ohms B) 17 ohms
C) 1/17 ohms D) 7 ohm

Answer: B) 17 ohms5. What is the length L₂, if total length (L) is 2.75 metre and L₁:L₂ = 2:3?

- A) 1.65 metre B) 1.75 metre
C) 1.1 metre D) 1.25 metre

Answer: A) 1.65 metre6. What is the voltage of the immersion heater?
 P = 500 watts
 I = 2.27 Amps
 V = ____ Volts

- A) 200.3 volts B) 230.3 volts
C) 210.3 volts D) 220.3 volts

Answer: D) 220.3 volts

7. What are fundamental units?

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

Answer: A) Length, Mass, Time

8. Which law states about electromagnetic induction?

- A) Faraday's law B) Ohm's law
C) Hooke's law D) Lenz's law

Answer: A) Faraday's law9. What is the x value for $x^2 + 62 = 126$?

- A) 10 B) 6
C) 4 D) 8

Answer: D) 8

10. What is the product of 0.003 x 0.5?

- A) 0.15 B) 0.00015
C) 0.015 D) 0.0015

Answer: D) 0.0015

11. Which is mineral insulator

- A) Quartz B) Mica
C) Glass D) Porcelain

Answer: B) Mica

12. Which statement is correct according to ohm's law?

- A) $I = V/R$ B) $I = R$
C) $I = 1/V$ D) $I = R/V$

Answer: A) $I = V/R$

13. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

- A) 24 days B) 20 days
C) 26 days D) 22 days

Answer: A) 24 days

14. What is the square root of 529?

- A) 12 B) 33
C) 43 D) 23

Answer: D) 23

15. What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

- A) 97.8 ohms B) 95.8 ohms
C) 96.8 ohms D) 94.8 ohms

Answer: C) 96.8 ohms

16. How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

- A) 395 volts B) 390 volts
C) 400 volts D) 405 volts

Answer: C) 400 volts

17. Convert 52% into fraction?

- A) (13/25) B) (9/25)
C) (11/25) D) (17/25)

Answer: A) (13/25)

18. What percentage of 80 is 20?

- A) 0.4 B) 0.25
C) 0.2 D) 0.8

Answer: B) 0.25

19. What is the HCF of 18, 42, 24?

- A) 18 B) 6
C) 2 D) 24

Answer: B) 6

20. What is the ratio of 4 kg to 800 grams?

- A) 05:01 B) 04:08
C) 02:04 D) 08:04

Answer: A) 05:01

21. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

- A) 1.2 W B) 3 W
C) 12 W D) 10 W

Answer: C) 12 W

22. What is the unit of intensity of magnetic field?

- A) Coloumb B) m/wb
C) Hertz D) wb/m

Answer: D) wb/m

23. What is the square root of 0.017?

- A) 0.001 B) 0.000001
C) 0.13 D) 0.00001

Answer: C) 0.13

24. Simplify: $(\frac{3}{4})+(\frac{2}{5})-(\frac{5}{20})$

- A) (9/10) B) (13/10)
C) (3/10) D) (12/10)

Answer: A) (9/10)

25. What is the flow of electrons in any conductor?

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

Answer: B) Current

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

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

Answer: A) 2000 watts

27. 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) 160 rpm B) 180 rpm
C) 120 rpm D) 140 rpm

Answer: B) 180 rpm

28. 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%

Answer: B) Cu 94%

29. What are the two classifications of system of units?

- A) Metric and International B) British and Metric
C) Fundamental and derived D) Gravitational and non-gravitational

Answer: C) Fundamental and derived

30. Convert decimal 0.000659 to fraction?

- A) (659/10000) B) (659/1000)
C) (659/1000000) D) (659/100000)

Answer: C) (659/1000000)

31. Which is same in series connection of resistors in a circuit?

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

Answer: A) Current

32. What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

- A) 9.6 watts B) 9.4 watts
C) 9.8 watts D) 9.2 watts

Answer: A) 9.6 watts

33. What is the improper fraction for the given mixed fraction $7 \frac{3}{7}$?

- A) "28/7" B) (52/7)
C) "7/52" D) "7/28"

Answer: B) (52/7)

34. How much watt second in 1 watt hour?

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

Answer: C) 3600 watt sec

35. Convert 0.456 decimal fraction into percentage?

- A) 0.000456 B) 0.0456

C) 45.6

D) 0.456

Answer: C) 45.6

36. What is the LCM of 12, 18, 6, 36?

A) 36

B) 18

C) 42

D) 12

Answer: A) 36

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

A) 13.79

B) 13.99

C) 13.89

D) 13.69

Answer: B) 13.99

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

A) EMF

B) Voltage

C) Resistance

D) Current

Answer: C) Resistance

39. What is the formula for induced emf?

A) $B \times L \times v \times \sin \theta$ volts

B) $BLV \sin \theta$ volts

C) $BL \sin \theta$ volts

D) $B \times L \times v \times \sin \theta$ volts

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

40. What is the definition of ratio?

A) Equality between two ratios

B) Inequality between two ratios

C) Relation of two quantities of the different kind

D) Relation of two quantities of the same kind

Answer: D) Relation of two quantities of the same kind

41. Divide $(20/31) / (15/62)$

A) $2(4/3)$

B) $2(2/3)$

C) $2(1/3)$

D) $2(3/2)$

Answer: B) $2(2/3)$

42. 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 240

D) Rs 220

Answer: C) Rs 240

43. What is the square root of decimal number 550.37?

A) 22.26

B) 21.26

C) 23.46

D) 22.46

Answer: C) 23.46

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

A) 0.29 metre

B) 0.25 metre

C) 0.28 metre

D) 0.23 metre

Answer: B) 0.25 metre

45. Which is the unit of current?

A) Volt

B) Ampere

C) Watt

D) Ohm

Answer: B) Ampere

46. Which is the example for statically induced emf?

A) Motor

B) Transformer

C) Refrigerator

D) Generator

Answer: B) Transformer

47. How much is 8% of 40 kg?

A) 3.2 kg

B) 5.2 kg

C) 4.2 kg

D) 2.2 kg

Answer: A) 3.2 kg

48. What is the decimal fraction of conversion of 18.5%?

A) 0.195

B) 0.185

C) 0.165

D) 0.175

Answer: B) 0.185

49. What denotes letter M in MKS system?

A) Micron

B) Meter

C) Mile

D) Millimeter

Answer: B) Meter