

02:08 PM

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Trinity iti Udupi

Answer Key

Duration: 60 Mins

Total Marks: 49

Q.ID: ITISKILL29330R

1. Which is very good conductor?

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

Answer: C) Copper

2. What is the square root of 529?

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

Answer: B) 23

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

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

Answer: C) 1.65 metre

4. Convert 52% into fraction?

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

Answer: B) (13/25)

5. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

- A) Cu 98% B) Cu 94%
C) Cu 92% D) Cu 96%

Answer: B) Cu 94%

6. What is the definition of ratio?

- A) Inequality between two ratios B) Relation of two quantities of the same kind
C) Relation of two quantities of the different kind D) Equality between two ratios

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

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

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

Answer: C) 9.6 watts8. What is the x value for $x^2 + 62 = 126$?

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

Answer: D) 8

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

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

Answer: B) wb/m

10. Convert 0.456 decimal fraction into percentage?

- A) 45.6 B) 0.000456
C) 0.456 D) 0.0456

Answer: A) 45.6

11. How much is 8% of 40 kg?

- A) 4.2 kg B) 3.2 kg
C) 5.2 kg D) 2.2 kg

Answer: B) 3.2 kg

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

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

Answer: C) 2000 watts

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

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

Answer: D) 05:01

14. How many millimetres are there in 1 inch?

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

Answer: A) 25.4 mm

15. Convert decimal 0.000659 to fraction?

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

Answer: A) (659/1000000)

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

- A) 22.46 B) 22.26
C) 23.46 D) 21.26

Answer: C) 23.46

17. What is the improper fraction for the given mixed fraction

? $7 \times (3/7)$

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

Answer: B) (52/7)

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

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

Answer: C) 24 days

19. What are fundamental units?

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

Answer: B) Length, Mass, Time

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

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

Answer: A) 0.25 metre

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

- A) $2(1/3)$ B) $2(4/3)$
C) $2(2/3)$ D) $2(3/2)$

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

22. What is the formula for induced emf?

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

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

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

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

Answer: A) Fundamental and derived

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

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

Answer: B) 13.99

25. Which law states about electromagnetic induction?

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

Answer: C) Faraday's law

26. What percentage of 80 is 20?

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

Answer: D) 0.25

27. 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) 94.8 ohms
C) 96.8 ohms D) 95.8 ohms

Answer: C) 96.8 ohms

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

- A) 0.185 B) 0.175
C) 0.195 D) 0.165

Answer: A) 0.185

29. Simplify: $(3/4) + (2/5) - (5/20)$

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

Answer: A) $(9/10)$

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

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

Answer: A) $I = V/R$

31. What is the square root of 0.017?

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

Answer: B) 0.13

32. What denotes letter M in MKS system?

- A) Mile B) Micron
C) Millimeter D) Meter

Answer: D) Meter

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

- A) 42 B) 36
C) 18 D) 12

Answer: B) 36

34. 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) 10 W D) 12 W

Answer: D) 12 W

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

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

Answer: D) Current

36. What is the voltage? $R = 250 \text{ Ohms}$ $I = 0.44 \text{ Amps}$ $V = \underline{\hspace{2cm}}$ Volts

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

Answer: D) 110 Volts

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

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

Answer: B) Current

38. Which is the example for statically induced emf?

- A) Refrigerator
- B) Transformer
- C) Motor
- D) Generator

Answer: B) Transformer

39. Which is the unit of current?

- A) Ohm
- B) Ampere
- C) Volt
- D) Watt

Answer: B) Ampere

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

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

Answer: C) Resistance

41. What is the voltage of the immersion heater? $P = 500 \text{ watts}$ $I = 2.27 \text{ Amps}$ $V = \underline{\hspace{2cm}}$ Volts

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

Answer: D) 220.3 volts

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

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

Answer: A) 6

43. What is the product of 0.003×0.5 ?

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

Answer: D) 0.0015

44. Which is mineral insulator

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

Answer: A) Mica

45. How much watt second in 1 watt hour?

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

Answer: C) 3600 watt sec

46. 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) 1/17 ohms
- D) 17 ohms

Answer: D) 17 ohms

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

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

Answer: D) 400 volts

48. 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) 180 rpm
- B) 140 rpm
- C) 120 rpm
- D) 160 rpm

Answer: A) 180 rpm

49. A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

- A) Rs 260
- B) Rs 220
- C) Rs 200
- D) Rs 240

Answer: D) Rs 240