

Duration: 90 Mins

Total Marks: 63

Q.ID: ITISKILL9569TD

1. Convert decimal 0.000659 to fraction?

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

Answer: C) (659/1000000)

2. 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

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

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

Answer: A) Fundamental and derived

4. 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%

5. What are fundamental units?

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

Answer: D) Length, Mass, Time6. What is the product of 0.003×0.5 ?

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

Answer: C) 0.0015

7. Which is the example for statically induced emf?

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

Answer: D) Transformer8. 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) 1.25 metre D) 1.1 metre

Answer: A) 1.65 metre

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

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

Answer: C) 3610. Simplify: $(3/4) + (2/5) - (5/20)$

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

Answer: B) (9/10)

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

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

Answer: D) 24 days

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

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

Answer: A) 2000 watts

13. How much is 8% of 40 kg?

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

Answer: A) 3.2 kg14. What is the improper fraction for the given mixed fraction ? $7 \times (3/7)$

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

Answer: D) (52/7)

15. Convert 0.456 decimal fraction into percentage?

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

Answer: C) 45.6

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

- A) Voltage B) Current

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

Answer: C) Copper

35. What is the square root of 529?

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

Answer: C) 23

36. What percentage of 80 is 20?

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

Answer: C) 0.25

37. Which is the unit of current?

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

Answer: C) Ampere

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

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

Answer: B) 96.8 ohms

39. Which is the unit electrical power?

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

Answer: C) Watts

40. What is the resistance? $I = 11.5$ Amps $V = 380$ Volts $R = \underline{\hspace{2cm}}$ Ohms

- A) 33 ohms
C) 43 ohms
- B) 13 ohms
D) 23 ohms

Answer: A) 33 ohms

41. Convert 52% into fraction?

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

Answer: D) (13/25)

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

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

Answer: C) Current

43. What is the definition of ratio?

- A) Relation of two quantities of the same kind
B) Equality between two ratios

- C) Relation of two quantities of the different kind
D) Inequality between two ratios

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

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

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

Answer: C) Current

45. What is the current Flow in the bulb? $P = 550$ watts
 $R = 22$ Ohms $I = \underline{\hspace{2cm}}$ Amps

- A) 3 Amps
C) 2 Amps
- B) 4 Amps
D) 5 Amps

Answer: D) 5 Amps

46. What is the x value for $x^2 + 62 = 126$?

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

Answer: B) 8

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

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

Answer: D) 05:01

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

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

Answer: C) 0.185

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

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

Answer: D) wb/m

50. What does EMF stands for?

- A) Electro Motive Force
C) Electro Magnetic Force
- B) Electromated Force
D) Electronic Magnetic Force

Answer: A) Electro Motive Force

51. What is the power required? $I = 0.455$ Amps $R = 484$ Ohms $P = \underline{\hspace{2cm}}$ Watts

- A) 99.2 watts
C) 98.2 watts
- B) 100.2 watts
D) 101.2 watts

Answer: B) 100.2 watts

52. Which is the unit of resistance?

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

Answer: D) Ohm

53. 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) 0.29 metre
C) 0.28 metre D) 0.23 metre

Answer: A) 0.25 metre

54. What is the square root of 0.017?

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

Answer: C) 0.13

55. What is the current? $R = 50 \text{ Ohms}$ 220 Volts
 $I = \underline{\hspace{2cm}}$ Amps

- A) 4.2 Amps B) 4.4 Amps
C) 4.3 Amps D) 4.1 Amps

Answer: B) 4.4 Amps

56. What denotes letter M in MKS system?

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

Answer: C) Meter

57. Which is mineral insulator

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

Answer: D) Mica

58. What is the rated power if an adjustable resistor bears the following label $1.5 \text{ k ohms} / 0.08\text{A}$?

- A) 9.4 watts B) 9.8 watts

- C) 9.2 watts D) 9.6 watts

Answer: D) 9.6 watts

59. Which machine converts mechanical energy into electrical energy?

- A) Heater B) Generator
C) Iron box D) Battery

Answer: B) Generator

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

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

Answer: C) 13.99

61. How many hours will take for a 100 watts bulb to consume 1 kwh energy? $W = 1 \text{ Kwh}$ $P = 100 \text{ Watts}$ $t = \underline{\hspace{2cm}}$ Hours

- A) 24 hours B) 18 hours
C) 10 hours D) 12 hours

Answer: C) 10 hours

62. 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

Answer: C) Rs 240

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

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

Answer: C) 6