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Score: 33/49 (67.35%)

Code: 5798

1. Which is the unit of resistance?

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

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

2. Which is very good conductor?

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

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

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

3. Which is mineral insulator

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

10. How much watt second in 1 watt hour?

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

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) 7 ohm
C) 17 ohms (Correct)
D) 1/17 ohms

11. What is the power if an emf of one volt causes a current flow of 1ampere?

- A) 1 watt (Correct)
B) 1 kilowatt
C) 1 HP
D) 1 Kilowatt hour

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

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

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

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

6. 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 (Correct)
B) Lenz's law
C) Newton's law
D) Hooke's law

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

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

7. What is the resistance?

$I = 11.5$ Amps
 $V = 380$ Volts
 $R = \underline{\hspace{2cm}}$ Ohms

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

14. What is the voltage of the immersion heater?

$P = 500$ watts
 $I = 2.27$ Amps
 $V = \underline{\hspace{2cm}}$ Volts

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

8. What is the current?

$R = 50$ Ohms
 $V = 220$ Volts
 $I = \underline{\hspace{2cm}}$ Amps

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

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

16. Which law states about electromagnetic induction?

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

17. Which is the example for dynamically induced Emf?

- A) Motor (Incorrect) **B) Generator**
C) Car D) Motor bike

18. Which is the unit electrical power?

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

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

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

20. How many hours will take for a 100 watts bulb to consume 1 kwh energy?

$W = 1 \text{ Kwh}$
 $P = 100 \text{ Watts}$
 $t = \text{___} \text{Hours}$

- A) 10 hours** B) 12 hours
C) 18 hours (Incorrect) D) 24 hours

21. What is the square root of 0.017?

- A) 0.001 **B) 0.13 (Correct)**
C) 0.00001 D) 0.000001

22. What is the definition of ratio?

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

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

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

24. What percentage of 80 is 20?

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

25. How much is 8% of 40 kg?

- A) 2.2 kg **B) 3.2 kg (Correct)**
C) 4.2 kg D) 5.2 kg

26. Convert 52% into fraction?

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

27. Convert 0.456 decimal fraction into percentage?

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

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

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

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

- A) 21.26 (Incorrect) B) 22.26
C) 22.46 **D) 23.46**

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

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

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

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

32. 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) 120 rpm B) 140 rpm
C) 160 rpm **D) 180 rpm (Correct)**

33. 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% (Correct)**
C) Cu 96% D) Cu 98%

34. 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 (Correct) D) Rs 260

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

- A) 0.185 (Correct)** B) 0.175
C) 0.165 D) 0.195

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

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

37. What are fundamental units?

- A) Length, Mass, Volume **B) Length, Mass, Time (Correct)**
C) Length, Mass, Area D) Length, Pressure, Volume
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- 38.** What denotes letter M in MKS system?
A) Mile **B) Meter (Correct)**
C) Millimeter D) Micron
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- 39.** How many millimetres are there in 1 inch?
A) 2.54 mm **B) 25.4 mm (Correct)**
C) 24.5 mm D) 2.45 mm
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- 40.** What is the LCM of 12, 18, 6, 36?
A) 12 B) 18
C) 36 (Correct) D) 42
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- 41.** What is the HCF of 18, 42, 24?
A) 2 **B) 6 (Correct)**
C) 18 D) 24
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- 42.** What is the improper fraction for the given mixed fraction $7 \times \frac{3}{7}$?
A) $\frac{52}{7}$ (Correct) B) " $\frac{7}{52}$ "
C) " $\frac{28}{7}$ " D) " $\frac{7}{28}$ "
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- 43.** Convert decimal 0.000659 to fraction?
A) $\frac{659}{1000}$ B) $\frac{659}{10000}$
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- C) $\frac{659}{100000}$ **D) $\frac{659}{1000000}$ (Correct)**
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- 44.** Simplify: $(\frac{3}{4})+(\frac{2}{5})-(\frac{5}{20})$
A) $\frac{3}{10}$ **B) $\frac{9}{10}$**
C) $\frac{12}{10}$ D) $\frac{13}{10}$ (Incorrect)
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- 45.** Divide $(\frac{20}{31})/(\frac{15}{62})$
A) $2(\frac{4}{3})$ B) $2(\frac{1}{3})$ (Incorrect)
C) $2(\frac{3}{2})$ **D) $2(\frac{2}{3})$**
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- 46.** What is the product of 0.003×0.5 ?
A) 0.0015 **B) 0.0015 (Correct)**
C) 0.015 D) 0.15
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- 47.** Simplify: $(17.49 \times 5.2)/(6.5)$
A) 13.69 B) 13.79
C) 13.89 **D) 13.99 (Correct)**
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- 48.** 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 (Correct)**
C) 0.28 metre D) 0.29 metre
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- 49.** What is the square root of 529?
A) 12 **B) 23 (Correct)**
C) 33 D) 43
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