

ITI Quiz - 02-Mar-2026 02:11 PM

Q. ID: ITISKILL6983HL

Calculation for MRAC and FITTER

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Trinity iti Udupi

Question Paper

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Score: 38/49 (77.55%)

Code: 0511

1. Which machine converts mechanical energy into electrical energy?

- A) Battery
B) **Generator (Correct)**
C) Heater
D) Iron box

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

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

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

- A) Current
B) Voltage
C) **Resistance (Correct)**
D) EMF

4. Which is very good conductor?

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

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

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

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

7. What is the resistance?

$I = 11.5 \text{ Amps}$
 $V = 380 \text{ Volts}$
 $R = \text{_____ Ohms}$

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

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

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

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

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

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

12. Which is equal to electric power?

- A) $R ² I$ watts
B) **$I ² R$ watts (Correct)**
C) RI
D) IRA

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 (Correct)**
D) 97.8 ohms

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

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

15. Which law states about electromagnetic induction?

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

16. What does EMF stands for?

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

17. Which is the example for statically induced emf?

- A) Generator
B) Motor
C) **Transformer (Correct)**
D) Refrigerator

18. Which is the example for dynamically induced Emf?

39. How many millimetres are there in 1 inch?

- A) 2.54 mm
C) 24.5 mm
B) **25.4 mm (Correct)**
D) 2.45 mm

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

- A) 12
C) **36 (Correct)**
B) 18
D) 42

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

- A) 2
C) 18
B) **6 (Correct)**
D) 24

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

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

43. Convert decimal 0.000659 to fraction?

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

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

- A) (3/10)
B) **(9/10)**

C) (12/10)

D) (13/10) (Incorrect)

45. Divide $(\frac{20}{31}) / (\frac{15}{62})$

- A) $2\frac{4}{3}$
C) $2\frac{3}{2}$
B) $2\frac{1}{3}$
D) **$2\frac{2}{3}$ (Correct)**

46. What is the product of 0.003×0.5 ?

- A) 0.00015
C) 0.015
B) **0.0015 (Correct)**
D) 0.15

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

- A) 13.69
C) 13.89
B) 13.79
D) **13.99 (Correct)**

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
C) 0.28 metre
B) **0.25 metre (Correct)**
D) 0.29 metre

49. What is the square root of 529?

- A) 12
C) 33
B) **23 (Correct)**
D) 43