

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

Q. ID: ITISKILL6983HL

Calculation for MRAC and FITTER

March 2026

Trinity iti Udupi

Question Paper

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Score: 15/49 (30.61%)

Code: 4144

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 (Incorrect)  
D) Power

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  
C) Resistance (Incorrect)  
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**  
B) Lenz's law (Incorrect)  
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 (Incorrect)  
C) **33 ohms**  
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  
C) **3600 watt sec (Correct)**  
D) 4000 watt sec

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

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

12. Which is equal to electric power?

- A)  $R > 2 </sup> I \text{ watts}$   
B)  **$I > 2 </sup> R \text{ watts}$**   
C)  $RI$   
D)  $IRA$  (Incorrect)

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**  
B) m/wb  
C) Hertz (Incorrect)  
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 (Incorrect)  
B) **Electro Motive Force**  
C) Electro Magnetic Force  
D) Electromated Force

17. Which is the example for statically induced emf?

- A) Generator (Incorrect)  
B) Motor  
C) **Transformer**  
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 (Incorrect)  
B) **25.4 mm**  
D) 2.45 mm

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

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

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

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

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

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

43. Convert decimal 0.000659 to fraction?

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

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

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

C) (12/10)

D) (13/10)

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

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

46. What is the product of  $0.003 \times 0.5$ ?

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

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

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

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

49. What is the square root of 529?

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