

# ITI Quiz - 06-Apr-2026 01:11 PM

Q. ID: ITISKILL4950NK

Calculation for MRAC and FITTER

April 2026

Iti

Question Paper

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Score: 54/63 (85.71%)

Code: 1741

1. Which machine converts mechanical energy into electrical energy?

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

2. Which is the unit of current?

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

3. Which is the unit of resistance?

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

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

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

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

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

6. Which is very good conductor?

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

7. Which is mineral insulator

- A) Glass  
**C) Mica (Correct)**  
B) Quartz  
D) Porcelain

8. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

- A) 11 ohms  
**C) 17 ohms (Correct)**  
B) 7 ohm  
D) 1/17 ohms

9. What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

- A) 10 (Incorrect)  
C) 5  
**B) 2.4**  
D) 4

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

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

11. 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)**  
C) Newton's law  
B) Lenz's law  
D) Hooke's law

12. What is the resistance?

<br>

$I = 11.5 \text{ Amps}$

<br>

$V = 380 \text{ Volts}$

<br>

$R = \text{_____ Ohms}$

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

13. What is the current?

<br>

$R = 50 \text{ Ohms}$

<br>

220 Volts

<br>

$I = \text{_____ Amps}$

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

14. What is the voltage?

<br>

$R = 250 \text{ Ohms}$

<br>

$I = 0.44 \text{ Amps}$

<br>

$V = \text{_____ Volts}$

- A) 100 Volts (Incorrect)  
C) 108 Volts  
B) 105 Volts  
**D) 110 Volts**

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

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

16. 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

17. 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

18. 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

19. Which is equal to electric power?

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

20. 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

21. 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

22. What is the voltage of the immersion heater?

$P = 500$  watts

$I = 2.27$  Amps

$V =$  \_\_\_\_\_ Volts

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

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

- A)  $\text{wb/m}$       B)  $\text{m/wb}$  (Incorrect)  
C) Hertz      D) Coloumb

24. Which law states about electromagnetic induction?

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

25. What is the formual for induced emf?

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

26. What does EMF stands for?

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

27. Which is the example for statically induced emf?

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

28. Which is the example for dynamically induced Emf?

- A) Motor      B) Generator (Correct)  
C) Car      D) Motor bike

29. Which is the unit electrical power?

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

30. What is the current Flow in the bulb?

$P = 550$  watts

$R = 22$  Ohms

$I =$  \_\_\_\_\_ Amps

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

31. What is the power required?

$I = 0.455$  Amps

$R = 484$  Ohms

$P =$  \_\_\_\_\_ Watts

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

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

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

33. 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

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

$W = 1$  Kwh

$t =$  \_\_\_\_\_ hours



C) 18

D) 24

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

A) **(52/7) (Correct)**

B) "7/52"

C) "28/7"

D) "7/28"

57. Convert decimal 0.000659 to fraction?

A) (659/1000)

B) (659/10000)

C) (659/100000) (Incorrect) **D) (659/1000000)**

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

A) (3/10)

**B) (9/10) (Correct)**

C) (12/10)

D) (13/10)

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

A)  $2\frac{4}{3}$

B)  $2\frac{1}{3}$

C)  $2\frac{3}{2}$  (Incorrect)

**D)  $2\frac{2}{3}$**

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

A) 0.00015

**B) 0.0015 (Correct)**

C) 0.015

D) 0.15

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

A) 13.69

B) 13.79

C) 13.89

**D) 13.99 (Correct)**

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

A) 0.23 metre (Incorrect)

**B) 0.25 metre**

C) 0.28 metre

D) 0.29 metre

63. What is the square root of 529?

A) 12

**B) 23 (Correct)**

C) 33

D) 43