

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

Q. ID: ITISKILL6983HL

Calculation for MRAC and FITTER

March 2026

Trinity iti Udupi

Question Paper

Student: Hgff

Score: 13/49 (26.53%)

Code: 5892

1. Which machine converts mechanical energy into electrical energy?

- A) Battery (Incorrect) **B) Generator**
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 (Correct)** B) Voltage
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** 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
C) 1 HP (Incorrect) 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 (Incorrect) B) 95.8 ohms
C) 96.8 ohms D) 97.8 ohms

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

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

15. Which law states about electromagnetic induction?

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

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 B) Motor (Incorrect)
C) Transformer D) Refrigerator

18. Which is the example for dynamically induced Emf?

A) Motor (Incorrect)	B) Generator	C) 8	D) 10
C) Car	D) Motor bike		
19. Which is the unit electrical power?		29. What is the square root of decimal number 550.37?	
A) Volts	B) Ohms (Incorrect)	A) 21.26	B) 22.26
C) Watts	D) Ampere	C) 22.46 (Incorrect)	D) 23.46
20. What is the current Flow in the bulb?		30. What is the length L2, if total length (L) is 2.75 metre and L1:L2 = 2:3?	
 P = 550 watts R = 22 Ohms I = ____Amps		A) 1.1 metre B) 1.25 metre (Incorrect) C) 1.65 metre D) 1.75 metre	
A) 2 Amps C) 4 Amps (Incorrect)			
B) 3 Amps D) 5 Amps			
21. What is the square root of 0.017?		31. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?	
A) 0.001	B) 0.13 (Correct)	A) 20 days	B) 22 days
C) 0.00001	D) 0.000001	C) 24 days (Correct)	D) 26 days
22. What is the definition of ratio?		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) Relation of two quantities of the same kind	B) Relation of two quantities of the different kind (Incorrect)	A) 120 rpm	B) 140 rpm (Incorrect)
C) Equality between two ratios	D) Inequality between two ratios	C) 160 rpm	D) 180 rpm
23. What is the ratio of 4 kg to 800 grams?		33. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?	
A) 05:01 (Correct)	B) 04:08	A) Cu 92%	B) Cu 94%
C) 08:04	D) 02:04	C) Cu 96% (Incorrect)	D) Cu 98%
24. What percentage of 80 is 20?		34. A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.	
A) 0.8	B) 0.4	A) Rs 200	B) Rs 220 (Incorrect)
C) 0.25 (Correct)	D) 0.2	C) Rs 240	D) Rs 260
25. How much is 8% of 40 kg?		35. What is the decimal fraction of conversion of 18.5%?	
A) 2.2 kg (Incorrect)	B) 3.2 kg	A) 0.185	B) 0.175
C) 4.2 kg	D) 5.2 kg	C) 0.165 (Incorrect)	D) 0.195
26. Convert 52% into fraction?		36. What are the two classifications of system of units?	
A) (9/25)	B) (11/25)	A) British and Metric	B) Gravitational and non-gravitational
C) (13/25)	D) (17/25) (Incorrect)	C) Fundamental and derived	D) Metric and International (Incorrect)
27. Convert 0.456 decimal fraction into percentage?		37. What are fundamental units?	
A) 0.456	B) 0.0456	A) Length, Mass, Volume (Incorrect)	B) Length, Mass, Time
C) 45.6 (Correct)	D) 0.000456	C) Length, Mass, Area	D) Length, Pressure, Volume
28. What is the x value for $x^2 + 62 = 126$?		38. What denotes letter M in MKS system?	
A) 4	B) 6 (Incorrect)	A) Mile	B) Meter
		C) Millimeter (Incorrect)	D) Micron

39. How many millimetres are there in 1 inch?

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

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 (Incorrect)
C) 18
- 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)
- B) (659/10000)
D) (659/1000000) (Correct)

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

46. What is the product of 0.003×0.5 ?

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

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

- A) 13.69
C) 13.89
- B) 13.79 (Incorrect)
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
C) 0.28 metre
- B) 0.25 metre (Correct)**
D) 0.29 metre

49. What is the square root of 529?

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