

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: 33/49 (67.35%)

Code: 1559

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 (Correct)**
C) Resistance
D) Power

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

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

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
C) Newton's law (Incorrect)
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) $I = 1/V$
B) $I = R$
C) **$I = V/R$**
D) $I = R/V$ (Incorrect)

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 (Incorrect)
B) 2000 watt sec
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**
C) Electro Magnetic Force (Incorrect)
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?

A) Motor (Incorrect)

C) Car

B) Generator

D) Motor bike

19. Which is the unit electrical power?

A) Volts (Incorrect)

C) Watts

B) Ohms

D) Ampere

20. What is the current Flow in the bulb?

P = 550 watts

R = 22 Ohms

I = _____Amps

A) 2 Amps

C) 4 Amps

B) 3 Amps

D) 5 Amps (Correct)

21. What is the square root of 0.017?

A) 0.001

C) 0.00001

B) 0.13 (Correct)

D) 0.000001

22. What is the definition of ratio?

A) Relation of two quantities of the same kind

C) Equality between two ratios (Incorrect)

B) Relation of two quantities of the different kind

D) Inequality between two ratios

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

A) 05:01 (Correct)

C) 08:04

B) 04:08

D) 02:04

24. What percentage of 80 is 20?

A) 0.8

C) 0.25 (Correct)

B) 0.4

D) 0.2

25. How much is 8% of 40 kg?

A) 2.2 kg

C) 4.2 kg

B) 3.2 kg (Correct)

D) 5.2 kg

26. Convert 52% into fraction?

A) (9/25)

C) (13/25) (Correct)

B) (11/25)

D) (17/25)

27. Convert 0.456 decimal fraction into percentage?

A) 0.456

C) 45.6

B) 0.0456 (Incorrect)

D) 0.000456

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

A) 4

C) 8 (Correct)

B) 6

D) 10

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

A) 21.26 (Incorrect)

C) 22.46

B) 22.26

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

C) 1.65 metre (Correct)

B) 1.25 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

C) 24 days (Correct)

B) 22 days

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

C) 160 rpm

B) 140 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%

C) Cu 96%

B) Cu 94% (Correct)

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

C) Rs 240 (Correct)

B) Rs 220

D) Rs 260

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

A) 0.185

C) 0.165 (Incorrect)

B) 0.175

D) 0.195

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

A) British and Metric

C) Fundamental and derived (Correct)

B) Gravitational and non-gravitational

D) Metric and International

37. What are fundamental units?

A) Length, Mass, Volume

C) Length, Mass, Area

B) Length, Mass, Time

D) Length, Pressure, Volume (Incorrect)

38. What denotes letter M in MKS system?

A) Mile

C) Millimeter

B) Meter (Correct)

D) Micron

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 (Correct)**
B) 18
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) (Correct)**
C) "28/7"
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)
B) **(9/10) (Correct)**

C) (12/10)

D) (13/10)

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**
D) 0.15 (Incorrect)

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**
D) 0.29 metre (Incorrect)

49. What is the square root of 529?

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