Calculation for ME

March 2026

ITI Quiz - 02-Mar-2026 02:23 PM

Trinity iti Udupi

Q. ID: ITISKILL0635AC

Question Paper

Student: Shristi
Score: 18/49 (36.73%)

Code: 6981

1. Which is the unit of resistance?

A) Ampere

B) Volt (Incorrect)

C) Ohm

D) Watt

2. Which is very good conductor?

A) Copper (Correct)

B) Cast iron

C) Wrought iron

D) Steel

3. Which is mineral insulator

A) Glass (Incorrect)

B) Quartz

C) Mica

D) Porcelain

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

A) 11 ohms (Incorrect)

B) 7 ohm

C) 17 ohms

D) 1/17 ohms

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 termperature 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 Amps

V = 380 Volts

R = _____Ohms

A) 13 ohms

B) 23 ohms

C) 33 ohms

D) 43 ohms (Incorrect)

8. What is the current?

R = 50 Ohms

220 Volts

I =_____Amps

A) 4.1 Amps (Incorrect)

B) 4.2 Amps

C) 4.3 Amps

D) 4.4 Amps

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

B) 1 kilowatt

C) 1 HP (Incorrect)

D) 1 Kilowatt hour

12. How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

A) 2000 watts

B) 2010 watts

C) 2020 watts (Incorrect)

D) 2030 watts

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 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

D) 230.3 volts (Incorrect)

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

A) wb/m

B) m/wb

C) Hertz

D) Coloumb (Incorrect)

16. Which law states about electromagnetic induction?

A) Ohm's law

B) Hooke's law

C) Lenz's law

D) Faraday's law (Correct)

17. Which is the example for dynamicallly induced Emf?

A) Motor (Incorrect)   **B) Generator**

C) Car   D) Motor bike

---

18. Which is the unit electrical power?

A) Volts (Incorrect)   B) Ohms

C) Watts   D) Ampere

---

19. How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

A) 390 volts (Incorrect)   B) 395 volts

C) 400 volts   D) 405 volts

---

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

W = 1 Kwh

P = 100 Watts

t = ____Hours

A) 10 hours   B) 12 hours (Incorrect)

C) 18 hours   D) 24 hours

---

21. What is the square root of 0.017?

A) 0.001   **B) 0.13 (Correct)**

C) 0.00001   D) 0.000001

---

22. What is the definition of ratio?

A) Relation of two quantities of the same kind (Correct)   B) Relation of two quantities of the different kind

C) Equality between two ratios   D) Inequality between two ratios

---

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

A) 05:01   B) 04:08 (Incorrect)

C) 08:04   D) 02:04

---

24. What percentage of 80 is 20?

A) 0.8   B) 0.4

C) 0.25 (Correct)   D) 0.2

---

25. How much is 8% of 40 kg?

A) 2.2 kg   **B) 3.2 kg**

C) 4.2 kg (Incorrect)   D) 5.2 kg

---

26. Convert 52% into fraction?

A) (9/25)   B) (11/25) (Incorrect)

C) (13/25)   D) (17/25)

---

27. Convert 0.456 decimal fraction into percentage?

A) 0.456   B) 0.0456

C) 45.6   D) 0.000456 (Incorrect)

---

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

A) 4   B) 6 (Incorrect)

C) 8   D) 10

---

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

A) 21.26   B) 22.26

C) 22.46 (Incorrect)   **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   B) 1.25 metre (Incorrect)

C) 1.65 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   B) 22 days

C) 24 days (Correct)   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 (Incorrect)   B) 140 rpm

C) 160 rpm   **D) 180 rpm**

---

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%   **B) Cu 94%**

C) Cu 96% (Incorrect)   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   B) Rs 220 (Incorrect)

C) Rs 240   D) Rs 260

---

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

A) 0.185 (Correct)   B) 0.175

C) 0.165   D) 0.195

---

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

A) British and Metric (Incorrect)   B) Gravitational and non-gravitational

C) Fundamental and derived   D) Metric and International

---

37. What are fundamental units?

A) Length, Mass, Volume   **B) Length, Mass, Time**

C) Length, Mass, Area   D) Length, Pressure, Volume (Incorrect)

---

38. What denotes letter M in MKS system?

A) Mile   **B) Meter (Correct)**

C) Millimeter   D) Micron

---

39. How many millimetres are there in 1 inch?

A) 2.54 mm   **B) 25.4 mm**

C) 24.5 mm   D) 2.45 mm (Incorrect)

---

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

A) 12   B) 18

C) 36 (Correct)   D) 42

---

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

A) 2   **B) 6**

C) 18   D) 24 (Incorrect)

---

42. What is the improper fraction for the given mixed fraction ? 7 x (3/7)

A) (52/7) (Correct)   B) "7/52"

C) "28/7"   D) "7/28"

---

43. Convert decimal 0.000659 to fraction?

A) (659/1000) (Incorrect)   B) (659/10000)

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

---

44. Simplify: (3/4)+(2/5)-(5/20)

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

C) (12/10)   D) (13/10)

---

45. Divide (20/31)/(15/62)

A) 2(4/3)   B) 2(1/3)

C) 2(3/2)   **D) 2(2/3) (Correct)**

---

46. What is the product of 0.003 x 0.5?

A) 0.00015   **B) 0.0015**

C) 0.015   D) 0.15 (Incorrect)

---

47. Simplify: (17.49x5.2)/(6.5)

A) 13.69   B) 13.79

C) 13.89   **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   **B) 0.25 metre**

C) 0.28 metre   D) 0.29 metre (Incorrect)

---

49. What is the square root of 529?

A) 12   **B) 23 (Correct)**

C) 33   D) 43