

Electricity MCQ Test for SSC CGL, Railway, WBCS & All Competitive Exams

Shortcut Maths Coaching Institute, Jadavpur, Kolkata

Instructions:

Read each question carefully and choose the correct option. The answer key is given at the end of this PDF.

1. Who had patented more than 1000 inventions during his life time?

- A. Edison
- B. Volta
- C. Ampere
- D. Faraday

2. The unit of electric current is _____.

- A. coulomb
- B. volt
- C. ampere
- D. ohm

3. The unit of electric charge is _____.

- A. coulomb
- B. volt
- C. ampere
- D. ohm

4. The unit of electric current is _____.

- A. coulomb
- B. coulomb/sec
- C. coulomb-sec
- D. coulomb/volt

5. 1 ampere = _____.

- A. coulomb sec
- B. coulomb/sec
- C. volt/sec
- D. ohm/sec

6. Work done on an electric charge is stored in it as _____.

- A. potential energy
- B. kinetic energy
- C. thermal energy
- D. nuclear energy

7. The unit of electrical potential is _____.

- A. coulomb/joule
- B. joule/coulomb
- C. watt/coulomb
- D. joule/ampere

8. The unit of electrical potential is _____.

- A. ampere
- B. coulomb
- C. volt
- D. watt

9. _____ is not essential to obtain electric current.

- A. Free electrons
- B. Potential difference

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- C. Electric circuit
- D. potential

10. _____ invented a simple electrochemical cell.

- A. Archimedes
- B. Edison
- C. Volta
- D. Coulomb

11. _____ energy is converted into electrical energy in Voltaic cell.

- A. Thermal
- B. Mechanical
- C. Kinetic
- D. Chemical

12. The unit of resistance is _____.

- A. volt/ampere
- B. coulomb/second
- C. volt/coulomb
- D. ampere/volt

13. The unit of resistance is _____.

- A. coulomb
- B. volt
- C. ohm
- D. ampere

14. When resistors are connected in series _____.

- A. voltage drop is uniform
- B. current is uniform
- C. both voltage and current are uniform
- D. neither of the two is uniform

15. When resistors are connected in parallel _____.

- A. voltage drop is uniform
- B. current is uniform
- C. both voltage and current are uniform
- D. neither of the two is uniform

16. Three resistors of 6 ohm, 12 ohm and 12 ohm are connected in parallel. Their equivalent resistance is _____.

- A. 6 ohm
- B. 12 ohm
- C. 3 ohm
- D. 1/3 ohm

17. Which of the following is not correct for electrical work?

- A. $W = VQ$
- B. $W = Vit$
- C. $W = I^2Rt$
- D. $W = I^2RQ$

18. _____ is not a unit of energy.

- A. joule
- B. watt

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- C. watt second
- D. kWh

19. 1 joule = _____.

- A. 1 watt-second
- B. 1 watt/second
- C. 1 coulomb/second
- D. 1 unit

20. Which of the following is not correct?

- A. $P = W/t$
- B. $P = I^2R$
- C. $P = WI$
- D. $P = VI$

21. Silicon is a/an _____.

- A. conductor
- B. insulator
- C. semiconductor
- D. superconductor

22. Who discovered electron?

- A. Coulomb
- B. Volta
- C. Ampere
- D. Thomson

23. 1 A = _____ mA

- A. 100
- B. 10^3
- C. 10^{-3}
- D. 10^{-6}

24. Ohm's law states that

- A. resistance increases as current increases
- B. resistance increases as voltage increases
- C. current increases as voltage increases
- D. current increases as resistance increases

25. Equivalent resistance of resistances in parallel is _____.

- A. smaller than the smallest resistance
- B. larger than the largest resistance
- C. an average of all resistances
- D. algebraic sum of all resistances

26. 1 unit of domestic energy is _____.

- A. 1 joule
- B. 1 watt second
- C. 3.6×10^6 J
- D. 3.6×10^6 kWh

27. Three resistors of equal value are connected in parallel. The circuit current is 3 A. Then the current passing through each resistor is _____.

- A. 3 A
- B. 1 A

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- C. 9 A
- D. $\frac{1}{3}$ A

28. How much electric charge is present on 100 protons?

- A. 6×10^{-19} C
- B. 6×10^{-17} C
- C. 1.6×10^{-19} C
- D. 1.6×10^{-17} C

29. Pure water is electrically...

- A. a good conductor
- B. a bad conductor
- C. a semiconductor
- D. a super conductor

30. The frequency of direct current in India is _____ Hz.

- A. 0
- B. 50
- C. 60
- D. 220

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Answer Key

Q1.	A	Q2.	C	Q3.	A	Q4.	B	Q5.	B
Q6.	A	Q7.	B	Q8.	C	Q9.	D	Q10.	C
Q11.	D	Q12.	A	Q13.	C	Q14.	B	Q15.	A
Q16.	C	Q17.	D	Q18.	B	Q19.	A	Q20.	C
Q21.	C	Q22.	D	Q23.	B	Q24.	C	Q25.	A
Q26.	C	Q27.	B	Q28.	D	Q29.	B	Q30.	A

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