

PONNUSAMY NAGAR, SALEM ROAD(NH-44), NAMAKKAL-637003. TAMILNADU. Mobile: 9942099122, 9942099109, Web: www.selvamtech.edu.in

Name of the Bundle	Advanced Bundle V1	Subject	Competitive Exams Training (Science)
Topic	Electricity	Last updated on	08 August 2024

- 1) What is the SI unit of electric charge?
 - a) Volt
 - b) Coulomb
 - c) Ampere
 - d) ohm

Ans: b) Coulomb

- 2) An electron possesses a negative charge of:
 - a) 16 * 10⁻¹⁹ C
 - b) 1.60 * 10⁻¹⁹ C
 - c) 26 * 10⁻¹⁹ C
 - d) 1.8 * 10⁻¹⁹ C

Ans: b) 1.60 * 10⁻¹⁹ C

- 3) How many electrons taken together make one coulomb?
 - a) 6.25 * 10¹⁸ electrons
 - b) 3.25 * 10¹⁸ electrons
 - c) 2.25 * 10¹⁸ electrons
 - d) 4.25 * 10¹⁸ electrons

Ans: a) 6.25 * 1018 electrons

- 4) Which of the following is a conductor of electricity?
 - a) Silver
 - b) Copper
 - c) Aluminium
 - d) All of the above

Ans: d) All of the above

- 5) Substances through which electricity cannot flow are called:
 - a) Conductors
 - b) Insulators
 - c) Wires
 - d) Battery

Ans: b) Insulators

IT Support and Development Training Programme

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- 6) Which of the following is an insulator?
 - a) Carbon
 - b) Rubber
 - c) Silver
 - d) Copper

Ans:b) Rubber

- 7) Which of the following is an example of static electricity?
 - a) Glass rod rubbed with silk cloth
 - b) Ebonite rod rubbed with wool
 - c) Lightning in the sky
 - d) All of the above

Ans: d) All of the above

- 8) What is the work done in moving a unit positive charge from infinity to that point in an electric field called?
 - a) Electric potential
 - b) Potential difference
 - c) Electric current
 - d) Electric circuits

Ans: a) Electric potential

- 9) What is the SI unit of resistance?
 - a) Volt
 - b) Watt
 - c) Ohm
 - d) Metre

Ans: c) Ohm

- 10) The resistance of a conductor depends on its:
 - a) Length
 - b) Nature of material
 - c) Thickness
 - d) All of the above

Ans:d) All of the above

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11) Current is inversely proportional to:

- a) Potential difference
- b) Resistance
- c) Voltage
- d) Electric power

Ans: b) Resistance

- 12) What is the formula for calculating current?
 - a) I = V * R
 - b) I = V + R
 - c) I = V R
 - d) I = V/R

Ans: d) I=V/R

- 13) The law which gives relationship between current and potential difference is called:
 - a) Ohm's law
 - b) Ampere's law
 - c) Biot-Savart law
 - d) Coulomb's law

Ans: a) Ohm's law

- 14) Which of the following is a current-detecting instrument?
 - a) Voltmeter
 - b) Ammeter
 - c) Magnetometer
 - d) Galvanometer

Ans: d) Galvanometer

- 15) Which of the following is a part of an electrical circuit?
 - a) Battery
 - b) Fixed resistance
 - c) Connecting wires
 - d) All of the above

Ans: d) All of the above

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16) A continuous conducting path consisting of wires and other resistanc	es and a switch,
between the two terminals of a battery along which an electric current flo	ws is called:

- a) Resistivity
- b) Circuit
- c) Electric power
- d) Insulator

Ans: b) Circuit

- 17) When Electric current flows through a wire it behaves like a
 - a) Amplifier
 - b) Conductor
 - c) Magnet
 - d) None of the above

Ans: c) Magnet

- 18) Which of the following is not an invention of Thomas Alva Edison
- i) Electric bulb
- ii) Gramophone
- iii) Motion picture camera
 - a) i only
 - b) ii only
 - c) iii only
 - d) All of the above

Ans: d) All of the above

- 19) A Battery is a device that stores chemical energy and converts it to ______.
 - a) Electrical energy
 - b) Ammeter
 - c) Voltmeter
 - d) Both b and c

Ans: a) Electrical energy

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20) When current is switched on in a room h	neater, is converted into
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- a) Electric energy, heat energy
- b) Electric energy, light energy
- c) Heat energy, Light energy
- d) Heat energy, electric energy

Ans: a) Electric energy, heat energy

- 21) In SI Units, the unit of current is
 - a) ampere
 - b) Candele
 - c) Decibel
 - d) newton

Ans: a) ampere

- 22) The rate of flow of electric charge is called
 - a) electric current
 - b) light
 - c) sound
 - d) force

Ans: a) electric current

- 23) Which of the following about ohm's law is true
 - i) V=RI
 - ii) V=R/I

Select the correct answer for the following options:

- a) i only
- b) ii only
- c) Neither i nor ii
- d) Both i and ii

Ans: a) i only

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- 24) Which of the following is the commercial unit of electric power?
 - a) Joule
 - b) KWh
 - c) Watt
 - d) Ampere

Ans: b) KWh

- 25) What is the work done to move a unit charge from one point to another called as?
 - a) Current
 - b) Resistance
 - c) Conductance
 - d) Potential Difference

Ans: d) Potential Difference

- 26) Which of the following metals is mostly used for filaments of electric bulbs?
 - a) Copper
 - b) Silver
 - c) Nickel
 - d) Tungsten

Ans: d) Tungsten

- 27) What is the property of a conductor to resist the flow of charges known as?
 - a) Conductance
 - b) Conductivity
 - c) Resistance
 - d) Electric Potential

Ans: c) Resistance

- 28) Which one of the following is not a conductor of electricity?
 - a) Vinegar
 - b) Lime juice
 - c) Salt water
 - d) Distilled water

Ans: d) Distilled water

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l on the heating effect of curre	Not based on th	Which of the following is	29)

- a) Electric heater
- b) Electric bulb(with filament)
- c) Electric iron
- d) Microwave

Ans: d) Microwave

- 30) Fuse wire used in electric instruments is made up of _____.
 - a) Pure zinc
 - b) Pure lead
 - c) Alloy of lead and tin
 - d) None of the above

Ans: c) Alloy of lead and tin

- 31) A device used for converting AC into DC is called _____.
 - a) Transformer
 - b) Rectifier
 - c) Induction coil
 - d) Dynamo

Ans: b) Rectifier

- 32) Electric wires are generally coated with:
 - a) Polypropylene
 - b) Polyvinyl chloride
 - c) Polyurethane
 - d) Polyethylene

Ans: b) Polyvinyl chloride

- 33) Superconductors are substances which
 - a) conduct electricity at lower temperature
 - b) offer high resistance to the flow of current
 - c) offer no resistance to the flow of current
 - d) conduct electricity at high temperature

Ans: c) offer no resistance to the flow of current

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34) Th	e instrument	is used for detec	ting electric curre	nt.		
a) b) c)	Galvanometer Tube tester Altimeter Volt meter					
Ans: a)	Galvanometer	•				
35) An	ammeter is co	nnected in with	the circuit.			
b) c)	parallel series both parallel a None of the ab					
Ans: b)) series					
36) Th	e SI unit of elec	ctrical conductance is	·			
b) c)	Ohm Siemens Ohm meter Ampere					
Ans: b)) Siemens					
37) Th	e poorest in ele	ectricity conductivity a	mong the following	ng metals is		
b) c)	silver Copper Gold Aluminium					
Ans: d	Ans: d) Aluminium					
38) Vo	ltmeter is conn	ected in with th	ne circuit.			
b) c)	parallel series both parallel a None of the ab					

Ans: a) parallel

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- 39) Dynamo is used for the conversion of which of the following?
 - a) High Voltage to Low Voltage
 - b) Electrical energy to Mechanical energy
 - c) Mechanical energy to Electrical energy
 - d) Low Voltage to High Voltage

Ans: c) Mechanical energy to Electrical energy

- 40) The device which is used for converting chemical energy to electrical energy?
 - a) Battery
 - b) Motor
 - c) Generator
 - d) None of these

Ans: a) Battery

- 41) Which of the given is the best conductor of electricity?
 - a) Copper
 - b) Gold
 - c) Aluminum
 - d) Silver

Ans: d) Silver

- 42) When the electric current does not flow between two bodies, it means they have the same?
 - a) Charge
 - b) Resistivity
 - c) Capacity
 - d) Potential

Ans: d) Potential

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43) What is the temperature of the filament of the lighted electric bulb?

- a) 1000 2000C
- b) 20000C 25000C
- c) 5000C 10000C
- d) 10000C 15000C

Ans: b) 20000C - 25000C

44) We often use a fuse in the main electrical supply for safety, why?

- a) Due to its low resistance and high melting point
- b) Due to its low resistance and low melting point
- c) Due to its high resistance and low melting point
- d) Due to its high resistance and high melting point

Ans: c) Due to its high resistance and low melting point

- 45) The filament of a halogen lamp is made up of which of the given options?
 - a) Sodium and Iodine
 - b) Tungsten and lodine
 - c) Tungsten and Bromine
 - d) Tungsten and Sodium

Ans: d) Tungsten and Sodium

46) Which of the given gases filled in tube lights?

- a) Mercury vapor and Neon
- b) Mercury vapor and Argon
- c) Sodium vapor and Neon
- d) Sodium vapor and Argon

Ans: b) Mercury vapor and Argon

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47)	Which	of the	following	materials	has the	least	resistivity?	?
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- a) Zinc
- b) Lead
- c) Mercury
- d) Copper

Ans: d) Copper

- 48) Are the materials having electrical conductivity much less than most of the metals but much greater than that of typical insulators?
 - a) Varistors
 - b) Thermistor
 - c) Semiconductors
 - d) Variable resistors

Ans: c) Semiconductors

49) Nichrome wire is an alloy of _____.

- a) Lead and zinc
- b) Chromium and vanadium
- c) Nickel and chromium
- d) Copper and silver

Ans: c) Nickel and chromium

- 50) The S.I unit of power is
 - a) Henry
 - b) Coulomb
 - c) Watt
 - d) Watt-hour

Ans: c) Watt

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- 51) All good conductors have high
 - a) Conductance
 - b) Resistance
 - c) Reluctance
 - d) Thermal conductivity

Ans: a) Conductance

- 52) The substances which have a large number of free electrons and offer a low resistance are called
 - a) Insulators
 - b) Inductors
 - c) Semiconductors
 - d) Conductors

Ans: d) Conductors

- 53) Which one of the following is an insulator?
 - a) Copper
 - b) Wood
 - c) Mercury
 - d) Aluminium

Ans: b) Wood

- 54) 1 volt is equal to _____
 - a) 1 joule
 - b) 1 coulomb
 - c) 1 watt
 - d) 1 joule/1 coulomb

Ans: d) 1 joule/1 coulomb

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55) Which o	f the t	following	is a	semiconduct	or	?
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- a) Glass
- b) Silicon
- c) Wood
- d) Phosphorus

Ans: b) Silicon

- 56) Which of the following is the Super conductor?
- 1) Aluminium
- 2) magnesium diboride
- 3) copper oxide
- 4) paper

Select the correct answer from the following.

- a) 1 only
- b) 2 and 4 only
- c) 1 and 3 only
- d) 1,2 and 3

Ans: d) 1,2 and 3

- 57) 1 ampere is equal to _____.
 - a) 1 coulomb
 - b) 1 watt
 - c) 1 volt
 - d) 1 coulomb/ 1 second

Ans: d) 1 coulomb/1 second

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58) What is the S.I unit of Electric power?

- a) Watt
- b) Joule
- c) ampere
- d) Kilowatt/hour

Ans: a) Watt

59) 1 kwh is equal to _____.

- a) $3.6 * 10^6$ J
- b) 36*10⁶J
- c) 36*10⁻⁶J
- d) 3.6*10⁵J

Ans: a) 3.6 * 106J

- 60) Which of the following statements is/are correct about ohm's law?
 - 1) The relationship between the potential difference across a conductor and the current through it.
 - 2) V=IR Where V-voltage, I- current and R- resistance

Select the correct option:

- a) 1 only
- b) 2 only
- c) both 1 and 2
- d) Neither 1 nor 2

Ans: c) both 1 and 2