Important Basic Electrical MCQs

In this post, some of the important Basic Electrical mcqs are given. It includes reciprocal of resistivity, unit of conductivity, unit of conductance, onm's law, semiconductor at low temperature, resistivity of semiconductor material, temperature co-efficient of pure metal, temperature co-efficient of metal alloy, heating material, valance electrons in conductor, valance electrons in semiconductor, resistance of electrolyte, unit of temperature co-efficient of resistance and zero resistivity materials.

Basic Electrical MCQs 41 to 45

- 41 The reciprocal of resistivity is known as
 - (a)Conductance
 - (b)Conductivity
 - (c)Resistivity
 - (d)Permeability

Correct Answer (b): Conductivity

- 42 The unit of conductivity is
 - (a) Siemens / meter
 - (b)Siemens
 - (c)1/Siemens

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(d)Ohm-meter
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Correct Answer (a): Siemens / meter

- 43 The unit of conductance is
 - (a)Ohm
 - (b)Siemens
 - (c)Ohm $^{-1}$
 - (d)Both(b) and(c)

Correct Answer (d): Both (b) and (c)

- 44 Which of the following relation is true?
 - (a)V = IR
 - (b)I = VR
 - (c)R = VI
 - $(d)V = I^2R$

Correct Answer (a): V = IR

- 45 Ohm's law is not applicable to
 - (a)Non-metallic
 - (b)Silicon carbide
 - (c)Metal
 - (d)Both (a) and (b)

Correct Answer (d): Both (a) and (b)

Basic Electrical MCQs 46 to 50

- 46 Which of the following must be constant for ohm's law?
 - (a)Pressure

(b) Velocity (c)Temperature (d) Voltage Correct Answer (c): Temperature 47 The semiconductor material at very low temperature acts as (a)Conductor (b)Insulator (c)Super conductor (d) None of the above Correct Answer (b): Insulator 48 The free electrons in the insulator material are (a)Zero (b) One hundred (c)1.6 x 10¹⁹ (d)One thousand Correct Answer (a): Zero The resistivity of pure semiconductor material is in the range of $110^{\,-12}~\Omega$ - m (c)1 Ω -m (d)Zero

Correct Answer (c):
$$1 \Omega$$
 - m

50 The temperature co - efficient of pure metal is (a) Positive

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(b) Negative
    (c)Zero
    (d) Any of the above
    Correct Answer (a): Positive
Basic Electrical MCQs 51 to 55
    The resistance of copper material becomes zero at temperature
51
of
    ( a )0°C
    (b)28°C
    (c) - 234.5°C
    (d) - 234.5°F
    Correct Answer (c): -234.5°C
52 The temperature coefficient of alloy material is
    (a)Zero
    (b) Small positive
    (c) Negative
    (d)Positive
    Correct Answer (b): Small positive
     Which of the following material is used for making heating
elements?
    (a)Copper
    (b)Aluminium
    (c) Metal alloys
    (d)Nickel
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	Correct Answer (c): Metal alloys
54	The valance electrons in the conductor material are
	(a)4
	(b)< 4
	(c)> 4
	(d)Zero
	Correct Answer (b): < 4
55	The valance electrons in the semiconductor materials are
	(a)<4
	(b)4
	(c)> 4
	(d)Zero
	Correct Answer (b): 4
Basi	c Electrical MCQs 56 to 60
	The resistance of the electrolyte with increase in the operature. (a)Increases (b)Decreases (c)Does not affect
	(d)Any of the above
	Correct Answer (b): Decreases
57	The temperature coefficient of semiconductor material is
	(a)Positive
	(b)Negative

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(c)Zero
    (d) Any of the above
    Correct Answer (b): Negative
58 As the temperature increases, the resistance of the _
increases irregular and small.
    (a)Pure metal
    (b)Alloys
    (c)Insulator
    ( d )Semiconductor
    Correct Answer (b): Alloys
59 The unit of temperature coefficient of resistance is
    (a)\Omega/m
    (b)1/°C
    (c)\Omega/^{\circ}C
    (d)Mho/°C
    Correct Answer (b): 1/°C
60 Which of the following materials have zero resistivity?
    (a)Conductors
     b)Semiconductors
    (c)Insulators
    ( d )Super conductors
    Correct Answer ( d ): Super conductors
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