

QUIZ – ANSWER KEY

QUIZ NO: 138

TOPIC: ELECTRICAL ENGINEERING

DATE: 26/12/2022

1. Ohm's law is applicable to ?

- [A] Semiconductors
- [B] Vacuum tubes
- [C] Carbon resistors
- [D] None of the mentioned

Answer: D

2. The condition for the validity of Ohm's law is that the ?

- [A] Temperature should remain constant
- [B] Current should be proportional to voltage
- [C] Resistance must be wire wound type
- [D] All of the above

Answer: A

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3. Ohm's law is not applicable to ?

- [A] Semiconductors
- [B] D.C. circuits
- [C] Small resistors
- [D] High currents

Answer: A

4. Correct form of ohm's law ?

- [A] $I = VR$
- [B] $V \propto I$
- [C] $V = IR$
- [D] Above B and C

Answer: D

5. Ohm's law in point form in field theory can be expressed as ?

- [A] $V = RI$
- [B] $J = E/\sigma$
- [C] $J = \sigma E$
- [D] $R = \rho l/A$

Answer: C

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6. 1 microvolt is ?

[A] 1×10^{-3} V

[B] 1×10^{-4} V

[C] 1×10^{-5} V

[D] 1×10^{-6} V

Answer: D

7. International ohm is defined in terms of the resistance of ?

[A] A column of mercury

[B] A cube of carbon

[C] A cube of copper

[D] The unit length of wire

Answer: A

8. Resistance of carbon filament lamp.....as the applied voltage increases ?

[A] Increases

[B] Decreases

[C] Remains same

[D] None of the above

Answer: B

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9. Four 100 W bulbs are connected in parallel across 200 V supply line. If one bulb gets fused ?
- [A] No bulb will light
 - [B] All the four bulbs will light
 - [C] Rest of three bulbs will light
 - [D] Above B and C

Answer: C

10. Two incandescent light bulbs of 40 W and 60 W ratings are connected in series across the mains. Then ?
- [A] The bulbs together consume 100 W
 - [B] The bulbs together consume 50 W
 - [C] The 60 W bulb glows brighter
 - [D] The 40 W bulb glows brighter

Answer: D

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