

QUIZ – ANSWER KEY

QUIZ 57

TOPIC: ELECTRICAL ENGINEERING

1. 20W, 40W, 60W, and 100 W lamps are connected across supply terminals. Which lamp will glow most brightly?

- [A] 100 W
- [B] 60 W
- [C] 40 W
- [D] 20 W

Answer: A

2. Two charges are placed at a certain distance apart. A brass sheet is placed between them. The force between them will

- [A] Increase
- [B] Decrease
- [C] Remains unchanged
- [D] None of the above

Answer: B

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3. If the number of turns of an inductive coil is doubled and core length is quadrupled, other parameters being the same, the inductance of the coil becomes

- [A] Doubled
- [B] Halved
- [C] Quadrupled
- [D] Unchanged

Answer: D

4. The colour code of a resistor of nominal value $2.7 \text{ k}\Omega \pm 10\%$ is

- [A] Red, violet, red and silver
- [B] Red, violet, yellow and gold
- [C] Red, violet, orange and silver
- [D] Red, violet, red and gold

Answer: A

5. A trimmer is a variable capacitor in which capacitance is changed by changing

- [A] Distance between plates
- [B] Plate area
- [C] Both(i) and (ii)
- [D] Dielectric

Answer: A

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6. In the nodal analysis, if there are 5 nodes available how many unknowns do we have

- [A] 3
- [B] 4
- [C] 6
- [D] 2

Answer: B

7. The atoms of Germanium crystal forms _____ bonds

- [A] Molecular
- [B] Covalent
- [C] Chemical
- [D] None of these

Answer: B

8. In a hydroelectric generating system, pressure variations due to rapid changes in velocity of water is mitigated using

- [A] Tailrace pipe
- [B] Penstock
- [C] Surge tank
- [D] None of these

Answer: C

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9. The armature copper loss in a dc generator is a

[A] Constant loss

[B] Variable loss

[C] Stray loss

[D] None of these

Answer: B

10. An electrical iron carrying 2A at 120V. Find resistance of the device?

[A] 60 Ohms

[B] 40 Ohms

[C] 80 Ohms

[D] 20 Ohms

Answer: A

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