Electrical Engineering Quiz 001 (Mixed)

Quiz Instructions

- Before attempting, carefully read the question text.
- Then choose the correct answer.
- Click on **"Submit"** to confirm your answer.
- Use the **Question List** in the upper left corner to jump to a certain question.

1. The resistivity of a conductor depends upon.....

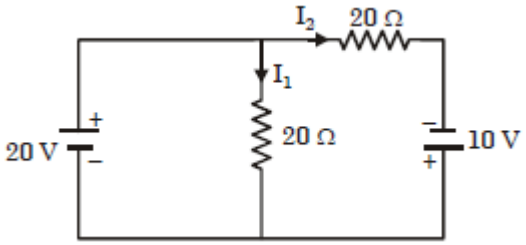
A) pressure

B) temperature

C) degree of illumination

D) shape of cross-section

2. Determine the value of current (in A) through both the resistors of the given circuit.



A) -2, -1.5

B) 2, 1.5

C) -2, 1.5

D) 2, -1.5

3. The S.I unit of electrical energy is.....

A) Watt

B) Volts

C) Ampere

D) Joule

4. Determine the energy (in J) stored by a 0.4 H inductance, if the current flowing through it is 2 A.

A) 1.6

B) 0.8

C) 0.4

D) 1.4

5. What will be the voltage (in V) across a 8 H inductor, when the rate of change of current in the inductor is 0.5 A/sec.

A) 2

B) 6

C) 4

D) 8

6. Which one of the following statement is TRUE?

A) The equivalent resistance in series combination is larger than the largest resistance in the combination.

B) The equivalent resistance in series combination is smaller than the largest resistance in the combination.

C) The equivalent resistance in series combination is equal to the smallest resistance in the combination.

D) The equivalent resistance in series combination is equal to the largest resistance in the combination.

7. Determine the voltage (in V) of a battery connected to a parallel plate capacitor (filled with air) when the area of the plate is 10 square centimeters, the separation between the plates is 5 mm and the charged stored on the plates is 20 pC.

A) 12.3

B) 10.3

C) 11.3

D) 14.3

8. The relative permeability of diamagnetic materials is _____.

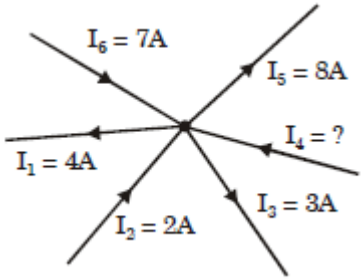
A) Greater than 1

B) Greater than 10

C) Less than 1

D) Greater than 100

9. What is the value of current I_4 (in A) for the given junction?



A) 4

B) -4

C) 6

D) -6

10. What will the equivalent capacitance (in mF) of three capacitors connected in a series having capacitance of 0.04 mF, 0.08 mF and 0.02 respectively?

A) 0.026

B) 0.032

C) 0.065

D) 0.011

Answer Keys

Question	Answer
1	B
2	B
3	D
4	B
5	C

Question	Answer
6	A
7	C
8	C
9	C
10	D