
Department of Electronics & Communication Engineering

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Quiz 2

Basic Electrical Engineering (IEN-101)

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Section : EC-1

Name & Roll Number :

Date :

Problems : 10

1. The voltage across heater of resistance 5 ohms, when the current flowing through it is 46A will be
(a) 230V (b) 320V (c) 460V (d) 200V
2. A potential difference of 12V is applied to a 4.7 k Ω resistor. The circuit current will be
(a) 5.22 mA (b) 2.55mA (c) 2.55A (d) 5.22A
3. A current in a circuit is due to a potential difference of 20V applied to a resistor of resistance 200 ohm. What resistance would permit the same current to flow if the supply voltage were 200V?
(a) 2 Ω (b) 0.2 k Ω (c) 2 k Ω (d) 0.22 k Ω
4. A potential difference of 12V is applied to a 7.5 Ω resistor for a period of 10 sec. The electric charge transferred during this time
(a) 61C (b) 61.1C (c) 16C (d) 1.6C
5. Four capacitors each of 20 μ F are connected in parallel, the total capacitance is
(a) 80 μ F (b) 5 μ F (c) 16 μ F (d) 61 μ F
6. Ten capacitors each of 10 μ F are connected in series, the total capacitance is
(a) 100 μ F (b) 1 μ F (c) 0.1 μ F (d) 0.001 μ F

7. One Farad is equal to

- (a) 1Ω (b) $1V/C$ (c) $1C/V$ (d) $1 \Omega/sec$

8. The unit of resistivity

- (a) Ω (b) Ω/m (c) Ω/m^2 (d) Ωm

9. Two resistors connected in parallel across a battery of 1V draw a current of 1A. When one of the resistor is disconnected, the current drawn is 0.2A. The resistance of the disconnected resistor is

- (a) 1Ω (b) 1.25Ω (c) 5Ω (d) 125Ω

10. Which of the following does not represent the unit of power?

- (a) VI (b) V/I (c) I^2R (d) J/sec
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