
Department of Electronics & Communication Engineering

Faculty of Engineering, Integral University, Lucknow

Quiz 3

Basic Electrical Engineering (IEN-101)

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Section : EC-1

Name & Roll Number :

Date :

Problems : 10

1. A branch in a network is said to be active when it contains
(a) Resistors (b) inductors (c) capacitors (d) source
2. Which of the element in the following is not bilateral?
(a) Resistors (b) inductors (c) capacitors (d) transistors
3. A node in network is defined as
(a) Close path (b) junction point of 2 or more branches (c) group of interconnected elements
(d) all of theses
4. Any close path formed by the branches in a network is called
(a) Loop (b) mesh (c) node (d) none
5. When resistances are connected in series, the voltage across all the resistance is
(a) Equal (b) unequal (c) proportional to the square of the current (d) none
6. When resistances are connected in parallel, the voltage across all the resistance is
(a) Equal (b) unequal (c) proportional to the square of the current (d) none
7. Which of the following is not a unit of conductance
(a) mho (b) siemens (c) V/A (d) A/V
8. Super position theorem can be employed
(a) Voltages only (b) currents only (c) power only (d) all of these
9. Thevenin's theorem can be applied to network containing
(a) Passive elements only
(b) Active elements only
(c) Linear elements only
(d) all of these

10. Nodal and Mesh methods of network analysis can be applied to
- (a) Independent current sources
 - (b) Independent voltage sources
 - (c) Dependent current and voltage sources
 - (d) all of these

Basic Electrical Engineering By T.K.NAGSARKAR AND M.S.SUKHIJA, Oxford University Press