Q.1 A circuit element may be defined as a two terminal electrical device which into other two terminal. A. can be subdivided B. cannot be subdivided C. can be divided D. cannot be divided
Q.2 what are the circuit elements?A. resistorB. inductor and capacitorC. voltage and current sourcesD. all of the above
Q.3 An interconnection of circuit elements is called a A. node B. branch C. circuit or network D. mesh
Q.4 The term circuit is used to describe a and the term network more often refers toelements configuration. A. simple configuration; complicated B. complicated configuration; simple C. simple configuration; simple and complicated D. simple and complicated configuration; simple
Q.5 A point in a circuit where the terminals of two or more elements are connected together is called A. branch B. node C. network D. closed path

Q.6 when three or more elements are connected at a node, then that node is called a

- A. junction
- B. essential node
- C. principal node
- D. all of the above

Q.7 Any path which contains no other paths is called

- A. closed path
- B. mesh
- C. branch
- D. loop

Q.8 what is branch?

- A. It has two terminals
- B. Is a part of the circuit which extends from one principal node to another.
- C. may contain one element or several elements in series
- D. all of the above

Q.9 which of the following is/are correct of closed path?

- A. any path along various branches of the circuit which finishes at the point where it started
- B. It is not necessary that closed path is made up of closed sequence of connected elements
 - C. The path can jump from any node to other
 - D. all of the above

Q.10 A path which contains more than two meshes is called____

- A. loop
- B. closed path
- C. network
- D. mesh

Q.11 which of the following is true?

- A. a loop contains mesh but a mesh does not contain a loop
- B. a loop contains mesh and a mesh also contain a loop
- C. a loop does not contains mesh but a mesh contain a loop
- D. a loop does not contains mesh and a mesh also does not contain a loop

Q.12 which of the following laws form the basis of all network analysis and are applicable to any network?

- A. Kirchhoff's laws
- B. Ohm's law
- C. Ampere's circuital law
- D. Maxwell's equation

Q.13 The polarity of the voltage source is ___ and ____ of the direction of current.

- A. not fixed; dependent on
- B. fixed; independent
- C. fixed; dependent
- D. not fixed; independent

Q.14 The positive terminal is at ____ and negative terminal at a ____

- A. lower potential; higher potential
- B. lower potential; lower potential
- C. higher potential; lower potential
- D. higher potential; higher potential

Q.15 A Kirchhoff's laws are applicable to

- A. linear elements
- B. non linear elements
- C. time varying or time invariant
- D. All of the above