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Network Analysis and Synthesis MCQ Test

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Below is the **Network Analysis and Synthesis MCQ test** that checks your basic knowledge of Network Analysis and Synthesis. This **Network Analysis and Synthesis MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the **Take Network Analysis and Synthesis MCQ Quiz Button**.

Q1. Which is a bilateral element?

- **A. Capacitance**
- B. Constant current source
- C. Constant voltage source
- D. None of the above

Q2. is not a nonlinear element.

- A. Gas diode
- **B. Heater coil**
- C. Electric arc
- D. Tunnel diode

Q3. The positive plate has spongy lead in a lead acid cell.

- **A. True**
- B. False

Q4. What do you mean by Network Analysis?

- **A. a method used to analyze, control and monitoring of business processes and workflows**
- B. business
- C. software

- **D. None of the above**

Q5. A passive network is one which contains:

- A. Only variable resistance
- B. Only some sources of e.m.f. in it
- C. Only two sources of e.m.f. in it
- **D. No source of e.m.f. in it**

Q6. The number of independent equations to solve a network is equal to:

- **A. The number of chords**
- B. The number of branches
- C. Sum of the number of branches and chords
- D. Sum of the number of branches, chords and nodes

Q7. Which of the following is not a nonlinear element ?

- A. Gas diode
- **B. Heater coil**
- C. Tunnel diode
- D. Electric arc

Q8. Millman's theorem yields:

- A. Equivalent resistance
- **B. Equivalent voltage or current source**
- C. Equivalent voltage source
- D. Equivalent impedance

Q9. Kirchhoff's law is applicable to:

- A. Passive networks only
- B. A.C. circuits
- C. D.C. circuits
- **D. Both (B) and (C)**

Q10. The superposition theorem is applicable to:

- A. Linear, nonlinear and time variant responses
- B. Linear and nonlinear resistors only
- **C. Linear responses only**
- D. None of the above

Q11. The terminals across the source are _____, if a current source is to be neglected.

- **A. Open-circuited**
- B. Short-circuited
- C. Replaced by a capacitor
- D. Replaced by a source resistance

Q12. Kirchhoff's current law is applicable to only:

- **A. Junction in a network**
- B. Closed loops in a network
- C. Electric circuits
- D. Electronic circuits

Q13. Superposition theorem can be applied only to circuits having:

- A. Resistive elements
- **B. Linear bilateral elements**
- C. Nonlinear elements
- D. Passive elements

Q14. Which of the following is the passive element?

- **A. Capacitance**
- B. Ideal current source
- C. Ideal voltage source
- D. All of the above

Q15. A nonlinear network does not satisfy:

- A. Superposition condition
- B. Homogeneity condition
- **C. Both homogeneity as well as superposition condition**
- D. Homogeneity, superposition and associative condition

Q16. For maximum transfer of power, internal resistance of the source should be ____.

- **A. Equal to load resistance**
- B. Less than the load resistance
- C. Greater than the load resistance
- D. None of the above

Q17. A capacitor is generally a ____.

- A. Bilateral and active component
- B. Active, passive, linear and nonlinear component
- **C. Linear and bilateral component**
- D. Nonlinear and active component

Q18. For a voltage source:

- A. Terminal voltage is always lower than source e.m.f.
- **B. Terminal voltage cannot be higher than source e.m.f.**
- C. The source e.m.f. and terminal voltage are equal
- D. None of these

Q19. The Characteristic Impedance of a low pass filter in attenuation Band is ____.

- **A. purely imaginary**
- B. zero
- C. complex quantity
- D. real value.

Q20. Which among the following is also regarded as 'Dual of Thevenin's Theorem'?

- **A. Norton's Theorem**
- B. Superposition Theorem
- C. Millman's Theorem

- **D. Maximum Power Transfer Theorem**

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