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Circuit Theorems and Conversions MCQ

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Q1. Conversions between delta-type and wye-type circuit arrangements are useful in certain specialized applications.

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

Q2. What is the values for an equivalent current source. When A certain voltage source has the values VS = 30 V and RS = 6?

- A. 5 A, 6 Ω
- **B.** 30 A, 6 & ohm;
- C. 5 A, 30 Ω
- **D.** 30 A, 5 & ohm;

Q3. An ideal current source has zero internal resistance.

- A. True
- B. False

Q4. A certain current source has the values IS = 4 μA and RS = 1.2 M. The values for an equivalent voltage source are ____.

- **A.** 4.8 V, 1.2 M Ω
- **B.** 1 V, 1.2 M & ohm;

 C. 4.8 V, 4.8 M Ω D. 4.8 V, 1.2 M Ω
Q5. A transistor is basically
 A. a current amplifier B. a voltage source C. power D. None of the above
Q6. A 120 V voltage source has a source resistance RS, of 60 Ω . The equivalent current source is
 A. 2 A B. 4 A C. 200 mA D. 400 mA
Q7. A 120 ? load is connected across an ideal voltage source with VS = 12 V . The voltage across the load is
 A. 0 V B. 120 V C. 12 V D. None of the above
Q8. You cannot convert a voltage source to an equivalent current source, or vice versa.
A. FalseB. True
Q9. Some circuits require more than one voltage or current source.

A. TrueB. False

Q10. An ideal current source has in parallel with the source.
 A. an infinite output impedance B. zero internal resistance C. zero internal impedance D. None of the above
Q11. What is Norton's equivalent current?
 A. The current source present in the Norton's equivalent circuit is called as Norton's equivalent current. B. The current source present in the circuit is called as Norton's equivalent current. C. The voltage source present in the Norton's equivalent circuit is called as Norton's equivalent current. D. All of the above
Q12. A practical current source has a finite internal resistance.
A. TrueB. False
Q13. A practical voltage source has a nonzero internal resistance.
A. TrueB. False
Q14. The Thevenin-equivalent voltage is the voltage at the output terminals of the original circuit.
A. TrueB. False
Q15. A certain voltage source has the values $VS = 30 V$ and $RS = 6$?. The values for an equivalent current source are

A. 5 A, 6 ?B. 30 A, 6 ?

- C. 5 A, 30 ?
- **D.** 30 A, 5 ?

Q16. A 2? RL is connected across a voltage source, VS, of 110 V. The source's internal resistance is 24 ?. What is the output voltage across the load?

- A. 8.5 V
- **B.** 85 V
- C. 0 V
- **D.** 110 V

Q17. The current source is converted into the equivalent voltage source:

- A. $V_S = I_S R_S$ B. $V_S = I_S / R_S$ C. $V_S^2 = I_S R_S$
- **D.** None of the above

Q18. Superposition works for voltage and current but not power.

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

Q19. The superposition theorem is applicable to:

- A. linear, non-linear and time variant responses
- **B.** linear and non-linear resistors only
- C. linear responses only
- **D.** none of the above

Q20. A voltage source having an open-circuit voltage of 100 V and internal resistance of 50 ? is equivalent to a current source:

- A. 2 A in parallel with 50?
- **B.** 2 A with 50 ? in series
- C. 0.5 A in parallel with 50?
- **D.** A in parallel with 100 ?

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