QUIZ – ANSWER KEY

QUIZ NO: 111

TOPIC: ELECTRICAL ENGINEERING

DATE: 05/10/2022

1. The condition for maximum voltage to be transferred to the load is?

   [A] Source resistance greater than load resistance

   [B] Source resistance less than load resistance

   [C] Source resistance equal to load resistance

   [D] Source resistance greater than or equal to load resistance

   Answer: B

2. The condition for maximum current to be transferred to the load is?

   [A] Source resistance greater than or equal to load resistance

   [B] Source resistance equal to load resistance

   [C] Source resistance less than load resistance

   [D] Source resistance greater than load resistance

   Answer: D

3. The condition for maximum power to be transferred to the load is?

   [A] Source resistance equal to load resistance

   [B] Source resistance greater than load resistance

   [C] Source resistance greater than or equal to load resistance

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[D] Source resistance less than load resistance

Answer: A

4. After how many time constants, the transient part reaches more than 99 percent of its final value?

[A] 2

[B] 3

[C] 4

[D] 5

Answer: D

5. The value of the time constant in the R-L circuit is?

[A] L/R

[B] R/L

[C] R

[D] L

Answer: A

6. The circuit is said to be in resonance if the current is _____ with the applied voltage ?

[A] in phase

[B] out of phase

[C] 45° out of phase

[D] 90° out of phase

Answer: A

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7. As XL = XC in a series resonance circuit, the impedance is_____ ?

    [A] purely capacitive

    [B] purely inductive

    [C] purely resistive

    [D] capacitive and inductive

    Answer: C

8. The voltage across the LC combination in a series RLC circuit is?

    [A] 0

    [B] 1

    [C] 2

    [D] 3

    Answer: A

9. Determine the current if a 20 coulomb charge passes a point in 0.25 seconds ?

    [A] 10 A

    [B] 20 A

    [C] 2 A

    [D] 80 A

    Answer: D

10. The current law represents a mathematical statement of fact that _____ ?

    [A] voltage cannot accumulate at node

    [B] charge cannot accumulate at node

    [C] charge at the node is infinite

    [D] none of the mentioned

    Answer: B

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