

QUIZ – ANSWER KEY

QUIZ NO: 65

TOPIC: ELECTRICAL ENGINEERING

DATE: 08/04/2022

1. Length of the cable is doubled, it's capacitance C will be

- [A] one-fourth
- [B] one-half
- [C] doubled
- [D] unchanged

Answer: C

2. Galvanized steel is generally used as

- [A] stray wire
- [B] earth wire
- [C] structural components
- [D] all of the above

Answer: D

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3. Ferranti effect will not occur in which of the following transmission lines

- [A] long transmission lines
- [B] short transmission lines
- [C] medium transmission lines
- [D] all of the above

Answer: B

4. Advantages of shunt compensation is/are

- [A] single unit can be used as both capacitance and inductor by adjusting the excitation
- [B] smooth voltage regulation is possible by controlling excitation
- [C] It requires less maintenance
- [D] all of the above

Answer: C

5. Advantages of Gauss Siedel method is/are

- [A] calculation time for each iteration is less
- [B] number of iterations are less
- [C] applicable for large power system network
- [D] all of the above

Answer: A

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6. In load flow studies PV bus is treated as PQ bus when

- [A] phase angle become high
- [B] voltage at the bus become high
- [C] reactive power goes beyond limit
- [D] any of the above

Answer: C

7. To reduce the radio interference which line is/are transposed?

- [A] Power line
- [B] Both power and telecommunication lines
- [C] either 1 or 2
- [D] none of the above

Answer: C

8. Proximity effect is more in case of

- [A] power cables
- [B] over head lines
- [C] same in both cases
- [D] none of the above

Answer: A

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9. If the diameter of the conductor is increased

- [A] the inductance is increased
- [B] the inductance is decreased
- [C] the resistance is increased
- [D] no change in inductance and resistance

Answer: B

10. Condition for maximum voltage regulation

- [A] $\tan\phi = X/R$
- [B] $\tan\phi = R/X$
- [C] $\cos\phi = X/R$
- [D] $\cos\phi = R/X$

Answer: A

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