Sample Questions

Electrical Engineering

1. Which of the following is the reason of crawling in a 3-Φ SCIM?
   
   a. Unbalance supply voltage  
   b. 7th space harmonic of air gap field  
   c. 5th space harmonic  
   d. None of these

2. What is the time period of a triangular wave having a frequency of 500 Hz?
   
   a. 0.002 sec  
   b. 0.0002 sec  
   c. 0.02 sec  
   d. 0.2 sec

3. Two sinusoidal signals having the same amplitude and frequency are applied to X and Y inputs of a CRO. The observed lissajous figure is a straight line. What will be the phase shift between the two signals?
   
   a. Zero  
   b. 90°  
   c. Either zero or 180°  
   d. Either 90° or 270°

4. State whether the following is true or false: Phase margin of a system specifies its relative stability.
   
   a. True  
   b. False

5. The per unit impedance of a line, to a 50 MVA, 132 kV base, is 0.4. What will be the per unit impedance of a 100 MVA, 132 kV?
   
   a. 0.5  
   b. 0.9  
   c. 0.4  
   d. 0.8
6. Which of the following block diagram describes the function of a cycloconverter

- a. [Diagram a]
- b. [Diagram b]
- c. [Diagram c]
- d. [Diagram d]

7. The output at any instant of time in a sequential circuit depends upon ________.
   - e. the inputs at that instant of time
   - f. past outputs as well as present inputs
   - g. past inputs
   - h. past outputs

8. Which of the following circuits is protected by metal oxide varistor?
   - i. Anode circuit against over currents
   - j. Gate circuit against over voltages
   - k. Gate circuit against over currents
   - l. Anode circuit against over voltages

9. In a torque voltage analogy, to which of the following is inductance analogous?
   - m. Damping coefficient
   - n. Moment of inertia
   - o. Stiffness
   - p. None of these