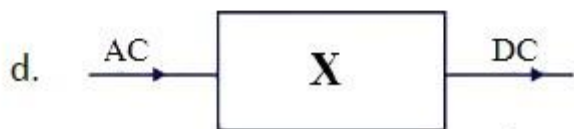
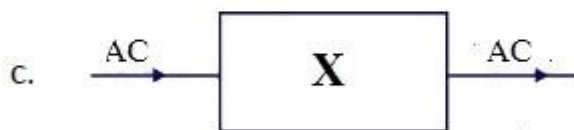
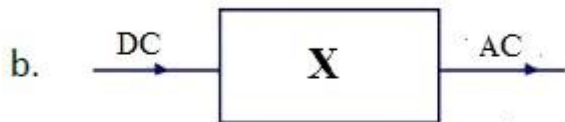


## Sample Questions

### Electrical Engineering

- Which of the following is the reason of crawling in a 3- $\Phi$  SCIM?
  - Unbalance supply voltage
  - 7th space harmonic of air gap field
  - 5th space harmonic
  - None of these
- What is the time period of a triangular wave having a frequency of 500 Hz?
  - 0.002 sec
  - 0.0002 sec
  - 0.02 sec
  - 0.2 sec
- 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?
  - Zero
  - 90°
  - Either zero or 180°
  - Either 90° or 270°
- State whether the following is true or false Phase margin of a system specifies its relative stability.
  - True
  - False
- 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?
  - 0.5
  - 0.9
  - 0.4
  - 0.8

6. Which of the following block diagram describes the function of a cycloconverter



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