

- Q-2 Answer in short. (Any TEN) [20]
1. What is the working principle of transformer?
 2. Draw equivalent circuit of transformer.
 3. Give the ideal transformer characteristics on no load circuit.
 4. Give the application of relays.
 5. Differentiate between NO and NC.
 6. Draw the circuit diagram of normally open and normally closed relay.
 7. Give the block diagram of transducer.
 8. Explain active transducer and passive transducer.
 9. Explain Analog and Digital transducer.
 10. List out the advantages of LVDT.
 11. What is encoder?
 12. Give the types of displacement transducer.
- Q-3 Explain the principle, construction and working of the transformer. [10]
- OR**
- Write a short note on shell type transformer. [10]
- Q-4 A Write a note on Construction and working of relays. [05]
- B Write a short note on contractors. [05]
- Q-4 C Explain Reed-Relay-Coupled SSR's with necessary diagram. [05]
- D Explain Transformer Coupled SSR's with necessary diagram. [05]
- Q-5 Explain dynamic characteristic of transducer. [10]
- OR**
- Explain static characteristic of transducer. [10]
- Q-6 A Explain the working of LVDT with labeled diagram. [05]
- B Explain capacitive type transducer with diagram. [05]
- OR**
- C Write a short note on Potentiometric resistance transducer. [05]
- D Explain operation of Piezo-electric transducer. [05]

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