

SECTION – II

- Q-4** **Attempt the Following questions** **(07)**
- a.** What is power amplifier? **01**
 - b.** Based on the biasing condition name the types of amplifiers. **01**
 - c.** What do you mean by the term distortion? **01**
 - d.** Draw the block diagram of 2×1 multiplexer. **01**
 - e.** What is demultiplexer? **01**
 - f.** Define decoders. **01**
 - g.** Give the classification for Shift registers. **01**
- Q-5** **Attempt all questions** **(14)**
- a** Classify the amplifiers based on its types. **07**
 - b** Differentiate: Voltage amplifiers and Power amplifiers **07**
- OR**
- Q-5** **Attempt all questions**
- a** Give an account on Class B push pull amplifier, also list its advantages and disadvantages. **08**
 - b** Write a note on transformer coupled Class-A power amplifier. **06**
- Q-6** **Attempt all questions** **(14)**
- a** Explain block diagram, truth table, circuit diagram and Boolean expression of 4 to 10 line BCD decoders. **07**
 - b** Write a detailed note on multiplexers with necessary figures. **07**
- OR**
- Q-6** **Attempt all Questions**
- a** Write a note on subtractor and its types with necessary diagrams **08**
 - b** Sketch and explain in detail Encoders **06**

