



- Q-3            Attempt all questions**
- a) Explain OR gate. **(04)**
  - b) Explain Magnetic Tape. **(05)**
  - c) Explain half adder with its diagram **(05)**
- Q-4            Attempt all questions**
- a)  $(75)_{10} = (?)_2$ . **(04)**
  - b) 2's complement: 10110 =? **(05)**
  - c) What is Bus? Explain Bus types. **(05)**
- Q-5            Attempt all questions**
- a) Explain Data Transmission mode. **(04)**
  - b)  $(258)_8 = (?)_{10}$ . **(05)**
  - c) Explain 4 to 1 line multiplexer with diagram. **(05)**
- Q-6            Attempt all questions**
- a) Explain Stack Organization. **(07)**
  - b) Explain Input Devices (any 05). **(07)**
- Q-7            Attempt all questions**
- a) Explain Compiler. **(04)**
  - b) What is Port? Explain types of Port available in computer. **(05)**
  - c) Explain computer characteristics. **(05)**
- Q-8            Attempt all questions**
- a) Explain generations of computer with its advantages and disadvantages. **(07)**
  - b) Explain block diagram of computer. **(07)**

