



**( 2 )**

- (h) Describe ISDN.
  - (i) Calculate 2's complement of 67.
  - (j) Define index sequential storage ?
- 2.
  - (a) What is Computer ? Explain the types of computer in brief. 7
  - (b) Solve the following : 7
    - (i)  $1100 * 0.11$
    - (ii)  $(56)_{10} = (?)_{16}$
    - (iii) Block diagram of computer
- 3.
  - (a) Define output device. Explain the different kinds of output device with their working process. 7
  - (b) Explain the following : 7
    - (i) MICR
    - (ii) Head phone
    - (iii) Joysticks
- 4.
  - (a) What is Memory ? Explain sequential storage and direct storage with suitable examples. 7
  - (b) Explain the following : 7
    - (i) Data storage
    - (ii) Magnetic disk
    - (iii) DVD

**( 3 )**

5. (a) What is Software ? Explain the different kinds of system software with examples. 7
- (b) Explain the following : 7
- (i) Assembly language
- (ii) Virus
- (iii) Multi-user operating system
6. (a) What is Data Communication ? Explain Analog and Digital signals. 7
- (b) Explain the the following : 7
- (i) Full Duplex
- (ii) TCP/IP Protocol
- (iii) Broadband
7. Explain the following : 14
- (a) Input Device
- (b) Storage Device
- (c) Compiler and Interpreter
- (d) Modulation
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