

9. What is Instruction register?
 10. Define Stack addressing.
 11. Give two differences between input device and output device.
 12. List steps of Instruction Execution cycle.

Q.3 A Do as directed . [06]
 1. $(110011101)_2 = (?)_{16}$
 2. $(345)_8 = (?)_{10}$
 3. $(9871)_{10} = (?)_2$

B Explain binary number system with example. [04]

OR

Q.3 A Draw the Block diagram of Computer and explain its functions. [06]

B Do as directed. [04]

1. $100111.1000 + 111001.11100$
 2. $11100111.11 - 11111.01$

Q.4 A Explain storage representation method with example. [06]

B Write a short note on Unicode. [04]

OR

Q.4 A Explain instruction execution cycle with Von Neumann machine [06]

B Construct Even parity hamming code for "C" , where ASCII value of C = 67. [04]

Q.5 A Write a short note on Secondary Memory? [06]

B Write a note on pipeline Machine. [04]

OR

Q.5 A Explain array processor with diagram [06]

B Explain the role of Registers in computer storage [04]

Q.6 A List all Addressing Technique and Explain any two in detail with examples. [06]

B Differentiate between line printer and inkjet printer. [04]

OR

Q.6 A List input devices explain any two. [06]

B Differentiate between dot-matrix and laser printer. [04]