

Instructions: All Questions are compulsory.

Figures to the right indicate marks.

Q1. Answer any three Questions

- a) Classify computer according to their use. 5.
- b) Explain the characteristics of information. 5
- c) Explain the Principle of Cache Memory. 5
- d) Write a short note on Magnetic Disk. 5
- e) Write a short note on Optical Disk. 5
- f) Explain the Building blocks of Computer 5

Q2. Answer any three Questions

- a) Explain the following logic gates. 5
 - i) AND ii) NAND
- b) Explain Half Adder. 5
- c) Explain Multiplexer. 5
- d) Subtract the following numbers. 5
 - i) 1010 and 0101 ii) 1100 and 0011
- e) Explain Full Adder. 5
- f) Explain SR Flip-Flop 5

Q3. Answer any three Questions

- a) Explain the function and working of RAM 5
- b) What Memory management in Operating System 5
- c) Write short note on assemblers 5

- d) What is Time Sharing Operating System 5
- e) What is an Operating System? Explain with diagram. 5
- f) Write short note on Compilers. 5

Q-4. Answer any three Questions

- a) What is concept of Virtual Memory? 5
 - b) What is Multiprogramming Operating Systems 5
 - c) Explain the function and working of SRAM. 5
 - d) Explain the architecture of 8085 Microprocessor 5
 - e) What is Batch Operating System? 5
 - f) Write a Hexadecimal addition program 5
-