

Instructions: All Questions are compulsory.

Figures to the right indicate marks.

Q1. Answer any three questions.

- a) Explain the characteristics of information. 5
- b) Classify computer according to their use. 5
- c) What is the relationship between Data, Information and Knowledge? 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 the use of Instruction decoder. 5
- d) Add the following numbers 5
 - i) 1111 and 1111
 - ii) 1010 and 1111
- e) Explain working of Full Adder. 5
- f) What is Multiplexer? 5

Q3. Answer any three questions

- a) Explain the function and working of SRAM. 5
- b) What is Multiprogramming Operating Systems. 5
- c) Write short note on assemblers. 5
- d) Explain the function and working of DRAM. 5

(10)

e) What is an Operating System? Explain with diagram.

5

f) What is Memory management in Operating System?

5

Q4. Answer any Three Questions

a) Explain Architecture of 8085 Microprocessor.

5

b) Explain the principles of Cache Memory

5

c) Explain the use of Program Counter.

5

d) What is the difference between PROM and EPROM?

5

e) What are different RAID levels? Explain any two.

5

f) Write a assembly language program of Subtraction.

5

=====0101010101001010101=====