Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech (IT) (Sem.–4)

MICROPROCESSORS AND ASSEMBLY LANGUAGE

Subject Code : CS-208

Paper ID : [A0461]

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Answer briefly :

a) Distinguish between memory mapped and i/o mapped i/o.

b) Explain SOD and SID.

c) How delays in the programs introduced?

d) What are the types of conditions in conditional call instructions?

e) What is the main difference between arithmetic and logical instructions?

f) What is the purpose of operational codes in the instructions?

g) What is the purpose of the rotate instructions?

h) What is the role of stack in a microprocessor?

i) What is the advantage of assembly language?

j) Explain the working of CMP M instruction.

SECTION-B

2. What are addressing modes? What do they specify? Discuss various addressing modes.

3. What are one, two and three byte instructions? Explain.

4. Differentiate between microprocessor and microcontroller?

5. What are the major differences between 8085 and 8086 microprocessors? Explain.

6. Explain the concept of PROM programming with an example.

SECTION-C

7. Write a program to find smallest in an array of numbers.

8. How traffic lights may be interfaced to the CPU? Explain in detail.

9. Discuss various groups of instructions of 8085 microprocessor.