



- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answer and write the answer relevant to questions only.

Either :

1. a) What is the function of an Assembler? Write the purpose of Pass-1 and Pass-2 of an assembler. 4
- b) Explain linear and Binary search with example. 4

OR

- c) Explain the interchange sort in detail with example. 4
- d) Define macro. Explain features of macro facility. 4

Either :

2. a) Discuss in detail the format of data structures. 4
- b) Explain in detail about compile and GO loader. 4

OR

- c) What is loader schemes? Explain any one of the loader in detail. 4
- d) Write a short note on 4
 - i) Subroutine linkages
 - ii) Specification of problem.

Either :

3. a) Draw Pin diagram of 8086 μ p and explain function of each pin in detail. 4
- b) What is mean by addressing mode? Explain any four addressing mode of 8086 μ p with suitable example. 4

OR

- c) Discuss in detail about General purpose registers. 4
- d) Explain logical instruction set with example. 4

Either :

4. a) Explain in detail about assembler directives of 8086 microprocessor. 4
- b) Write an assembly language program to find 1st compliment of a number. 4

OR

- c) What is interrupt? Explain the types of interrupt in detail. 4
- d) Write an ALP to find addition of 8 bit number. 4

5. Solve all the questions.
 - a) Explain statement of problem in detail. 2
 - b) Explain Direct linking loader. 2
 - c) Explain function of status flag of 8086 μ p in short. 2
 - d) What is MASM? Explain. 2
