

B.C.A.- II (CBCS Pattern) Semester-IV
UBCAT406 - Paper-VI - System Software & Microprocessor 8086

P. Pages : 2

Time : Three Hours



GUG/S/25/11980

Max. Marks : 40

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answer and write specific answer related to questions.

Either:

1. a) Write a short note on following. 4
 - i) Linear search.
 - ii) Binary search.
- b) Explain features of Macro facility in detail. 4

OR

- c) Describe the design procedure of data structure. 4
- d) Explain formation of data base in detail. 4

Either:

2. a) State different type of loader and Explain any one of them in brief. 4
- b) Write short note on: 4
 - i) Format of data structure.
 - ii) Subroutine linkage.

OR

- c) Explain design of Absolute loader in detail. 4
- d) What is direct linking loader? Explain specification of data structure in detail. 4

Either:

3. a) Draw and explain Architecture of 8086 microprocessor in detail. 4
- b) Explain any four Arithmetic instruction of 8086 microprocessor with example. 4

OR

- c) What is mean by addressing mode of 8086 microprocessor? Explain any four addressing mode with example. 4
- d) Discuss conditional and unconditional branch control instruction in detail. 4

Either:

4. a) Write an Assembly Language Program for addition of two 16 bit number. 4
- b) Explain various assembly language directives in detail. 4

OR

- c) Write an ALP to find factorial of a number. 4
- d) Write an ALP to find 2^S compliment of a unsinged number. 4
5. Solve all the questions.
- a) Describe Bucket Sort in brief. 2
- b) Give a short note on Relocating loader. 2
- c) What is mean by interrupts? Explain any two with example. 2
- d) Explain Debug Command in 8086 microprocessor. 2
