

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

P. Pages : 2

Time : Three Hours



GUG/S/23/11980

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) Discuss in detail the design of Assembler. 4
- b) Write short note on: 4
 - i) Linear search
 - ii) Binary search

OR

- c) Explain in detail the working of Bucket sort. 4
- d) Write features of Macro facility. 4

Either:

2. a) What is Loader schemes? Explain Absolute loader in detail. 4
- b) Discuss the format of Data structure in detail. 4

OR

- c) Explain in detail compile and Go Leader. 4
- d) What is subroutine linkages? Explain in detail. 4

Either:

3. a) Draw pin diagram of 8086 microprocessor and explain the function of each pin in brief. 4
- b) What is general purpose registers? Specify the function of different types of registers in detail. 4

OR

- c) Explain the Arithmetic Instruction set with example. 4
- d) State the flags in 8086 microprocessor. Explain each flags in detail. 4

Either:

4. a) Explain Assembler directives in brief. 4
b) Explain various DEBUG command in detail. 4

OR

- c) Write an ALP to find factorial of a number. 4
d) What is interrupt? Explain types of interrupt. 4
5. Solve **all** the question.
- a) Explain in brief about Data Structure. 2
b) Write short note on Relocating Loader. 2
c) What is Addressing mode? Explain any two addressing mode in detail. 2
d) Write an ALP to find 1's Compliment of a number. 2
