

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

P. Pages : 2

Time : Three Hours



GUG/W/23/11980

Max. Marks : 40

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- Notes : 1. All questions are compulsory & carry equal marks.
2. Draw well labelled diagram wherever necessary.
3. Avoid vague answer.

Either:

1. a) What is Assembler? Discuss design of Assembler. 4
b) Explain Linear search with suitable example. 4

OR

- c) Discuss general design procedure for assembler. 4
d) Explain features of Macro facility in detail. 4

Either:

2. a) Write a detail note on Compile and Go loader in detail. 4
b) What is linking? Explain specification of problem. 4

OR

- c) Write a short note: 4
i) Subroutine Linkage
ii) Relocating Loaders
d) Explain General Loader Scheme in detail. 4

Either:

3. a) Explain block diagram of 8086 in detail. 4
b) Discuss general purpose registers in short. 4

OR

- c) What is interrupts? Explain its types. 4
d) Explain data transfer technique in short. 4

Either:

4. a) Explain Assembler directives in short. 4
b) Explain in short different operators in assembly language program. 4

OR

- c) Explain DEBUG command in detail? 4
d) Write a ALP for Addition of two 8-bit numbers. 4
5. Solve all the questions.
- a) Write the advantages of Bubble Sort algorithm. 2
b) What is Loader? Explain features of Loader. 2
c) Write and explain two string manipulation functions in 8086. 2
d) Write the features of ALP. 2
