

[illegible]

Total No. of Questions : 09

SYSTEM PROGRAMMING

M.Code : 74077

Max. Marks : 60

1. **SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.**
2. **SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**

1. Explain various data structure required for the design of a Macro-processor with an example.
2. What do you mean by assembler? Explain Single pass assembler with algorithm.

- Describe the data structure and algorithm for linking loader.
- With the help of suitable diagram, explain in detail the structure of a text editor.

5. Explain various permanent and temporary tables used in the designing of Compiler.
6. What is YACC? Explain the different sections used in writing the YACC Specification.

7. Define distributed system. Explain key concepts and techniques used in distributed system.
8. What is operating system? Explain functions and types of operating system in detail.

SECTION-E

9. a) What do you mean by dynamic loading?
- b) What is a macro call and macro expansion?
- c) Explain use of linkage editor.
- d) Define multitasking.
- e) What do you mean by virtual devices?
- f) What do you mean by device driver?
- g) Explain briefly Network Operating system.
- h) What is a Deterministic finite automation?
- i) How system software is different from application software?
- j) What do you mean by dynamic linking?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.