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MCA (E-I) (2015 & Onwards) (Sem.-3) SYSTEM PROGRAMMING

> Subject Code: MCA-305A M.Code: 74077

Time: 3 Hrs. Max. Marks: 60

# INSTRUCTIONS TO CANDIDATES:

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

### SECTION-A

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

# SECTION-B

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

## SECTION-C

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

#### SECTION-D

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





## SECTION-E

- 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?
  - Aking? 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.



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