Roll No.							Total No. of Pages : 02

Total No. of Questions: 09

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:

- 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.

SECTION-A

- 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.

SECTION-B

- 3. 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

- 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.

SECTION-D

- 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.

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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.
 - What do you mean by virtual devices?
 - What do you mean by device driver?
 - Explain briefly Network Operating system.
 - What is a Deterministic finite automation?
 - How system software is different from application software? i) Man Files Ranker Com
 - What do you mean by dynamic linking? j)

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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