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Total No. of Questions: 09

Total No. of Pages: 02

MCA E-I (Sem.3)
SYSTEM PROGRAMMING
Subject Code: MCA-305A
Paper ID: 74077

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

1. Sections A, B, C and D contains TWO questions each carrying TEN marks each. Attempt any ONE question from each section.
2. Section E is COMPULSORY consisting of TEN Questions carrying TWO marks each.

SECTION A

1. Give the features of Macro-processor and explain the data structure used in Macro- processors.
2. Write an algorithm for PASS-1 of two pass assembler and explain with an example.

SECTION B

3. Write notes on automatic library search, linkage editor and dynamic linking.
4. Explain in detail the structure of a text editor

SECTION C

5. What are the different techniques of attaining optimization in Compiler Designing?
6. Write a YACC program to work as a calculator which performs addition, subtraction, multiplication and division.

SECTION D

7. What do you mean by operating system? Explain in detail various functions of operating system.
8. Write a detailed note on real time operating system and distributed operating system.

SECTION E

9.

- a) Write the abbreviation for the following
 - i) CISC ii) RISC
- b) Distinguish assembler and interpreter
- c) Define relocation
- d) Define text editor
- e) What do you mean by debugger?
- f) Distinguish between system software and application software.
- g) Define Non Deterministic finite automata.
- h) Explain overlays.
- i) Define User Interface.
- j) Give the basic loader functions