

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**MCA (2019 Batch) (Sem.-3)**  
**SYSTEM PROGRAMMING**  
Subject Code : MCA-305A  
M.Code : 70776

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTIONS TO CANDIDATES :**

1. SECTIONS-A, B, C & D contains TWO questions each carrying TWENTY 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. What is a language processor? Discuss the data structures for language processing. 5
2. What is a macro instruction? How are arguments passed to a macro instruction? 15

**SECTION-B**

3. What is a loader? Discuss different types of loaders. (5, 15)
4. What is the role of an editor? List different types of editors and their usage. (5, 15)

**SECTION-C**

5. Make a comparison between interpreter, compiler, debugger, and assembler. (20)
6. Why is code optimization important? Discuss different types of code optimization techniques. (5, 15)

**SECTION-D**

7. What is the role of Operating System? Explain the different types of OS. (5, 15)
8. Write short notes on :
  - a) Device drivers (10)
  - b) Booting techniques (10)

## SECTION-E

9. Write briefly :

(10×2=20)

- a) What is a plug and play system?
- b) What is an operating system?
- c) What is the role of assembler?
- d) Define the term debugging.
- e) What is the purpose of JIT compiler?
- f) What is booting?
- g) What is syntax analysis?
- h) What is a language?
- i) Write full forms of: USB, API.
- j) Give any two examples of text editors.

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