MCA (E-I) (2015 to 2018) (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) What is assembler? Explain working of single and two pass assembler.

2) What are Macro-processors? Give its features and data structure used in it.

SECTION-B

3) Explain absolute and bootstrap loader. Explain features of word processor.

4) Explain in detail the structure of text editor?

SECTION-C

5) What is the need of code optimization? What are the different techniques of code optimization? Explain with suitable example.

6) Discuss top-down parsing scheme with help of example. What is the role of lexical and syntax analysis?

SECTION-D

7) What are distributed Operating Systems? Explain its characteristics. How they are different from network and mobile OS?

8) What is Process Management? Explain all types of schedulers.

SECTION-E

Write briefly :

9)   JIT Comiplers.

10)   Define RISC.

11)   Language processor.

12)   Bootstrap Loader.

13)   Relocation.

14)   Overlays.

15)   Define NDFA.

16)   Platform Independent.

17)   Define YACC.

18)   Define USB.

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.