

Roll No.

--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 18

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 Compilers.
- 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.