

Roll No. 

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

Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CSE / IT) (2012 to 2017) (Sem.-4)

SYSTEM PROGRAMMING

Subject Code : BTCS-405

M.Code : 56608

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****Answer briefly :**

1. Give the difference between BALR and USING.
2. What are the three main data structures used by our macro processor?
3. What do you mean by Static Linking?
4. Which amongst the one pass and two pass assembler is better and why?
5. What is Bootstrap loader? Explain its characteristics with examples.
6. What are the differences between Passes and Phases of compiler?
7. How do we differentiate between open subroutine and closed subroutines?
8. What does an assembler perform when it encounters LTORG assembler directive?
9. What is interpreter?
10. What do you mean by ambiguity of grammar?





**SECTION-B**

11. Compare linking loader and linkage editor.
12. Explain in detail the lexical analysis phase of a compiler.
13. What is LEX used for? What is the difference between LEX and YACC?
14. What is debugging. Explain different approaches adopted by programmers for debugging?
15. Write short notes on :
  - a. Overlays
  - b. Scanning and parsing

**SECTION-C**

16. Explain the two-pass assembler in detail with block diagram.
17. State and explain the algorithm for one pass macro processor.
18. What do you mean by text Editor? What are its features and discuss any two text editors in detail?

**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.**

