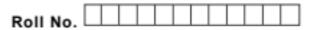


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Total No. of Pages : 02

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 :

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

# SECTION-A

#### Answer briefly :

- 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?

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#### SECTION-B

- Compare linking loader and linkage editor.
- 12. Explain in detail the lexical analysis phase of a compiler.
- 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.
- www.firstRanke 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.

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