

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 18

**B.Tech (CSE) (Sem.-4)**  
**SYSTEM PROGRAMMING**  
Subject Code : CS-210  
M.Code : 56517

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****Write briefly :**

- 1) Screen editor
- 2) Vi editor
- 3) Compiler
- 4) Macros
- 5) Flowcharts
- 6) LEXX
- 7) Linker
- 8) Kernel
- 9) Subroutines
- 10) Utilities

### SECTION-B

- 11) Describe the functions of operating system.
- 12) Explain syntax analysis phase of compiler.
- 13) What is dynamic linking? How dynamic loader helps dynamic linking?
- 14) What are the limitations of stack based memory allocation? Explain.
- 15) Explain the typical mechanism contained in the OS Kernel -

### SECTION-C

- 16) Describe the role of System Software in Modern Computer Systems.
- 17) What is a symbol table? Discuss the various ways of implementing it.
- 18) Write a notes on code generation and code optimization techniques.

**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.**