

Roll No. ....

Total No. of Questions : 09]

[Total No. of Pages : 02

**B.Tech. (Sem. - 4<sup>th</sup>)**  
**SYSTEMS PROGRAMMING**  
**SUBJECT CODE : CS - 210**

**Paper ID : [A0462]**

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

**Section - A**

**Q1)**

**(10 × 2 = 20)**

- a) Define multi window editor.
- b) What is translator?
- c) Define Lexical Analysis.
- d) What is the role of finite automata?
- e) What do you mean by intermediate code generation?
- f) What is role of absolute loader?
- g) Define subroutines.
- h) What is shell?
- i) What is role of kernel in an OS?
- j) What is CISC?

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**P.T.O.**

**Section - B**

(4 × 5 = 20)

- Q2) Explain the first pass of assembler.
- Q3) What are the various management for an operating system? Explain any one.
- Q4) What is the utility of debugging? Justify your answer with any case study.
- Q5) Explain the role of LEXX and YAAC.
- Q6) Explain the functionality of vi editor with its commands.

**Section - C**

(2 × 10 = 20)

- Q7) Explain the various phases of compiler.
- Q8) What is the functionality of loader and linker? Explain the case study of linker in X86 machines.
- Q9) What is the role of booting? Explain the various booting techniques.

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