

Roll No. ....

Total No. of Pages 02

Total No. of Questions : 09

B.Tech. (Sem. – 4<sup>th</sup>)  
SYSTEM PROGRAMMING  
SUBJECT CODE : CS - 210  
Paper ID : [A0462]

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

**Time : 03 Hrs.**

**Max. 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**

**( 10 \*2 = 20 Marks )**

Q1.

- 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?

**SECTION - B**

**( 4\*5 = 20 Marks )**

- 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 Marks )**

- 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.