Download all Notes and papers from StudentSwwindharsobjects.com

Roll No.	300000000000000000000000000000000000000
----------	---

Total No. of Questions: 09]

[Total No. of Pages: 02

B.Tech. (Sem. - 4th)

SYSTEMS PROGRAMMING

SUBJECT CODE: CS-210

<u>Paper ID</u>: [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)

 $(10 \times 2 = 20)$

- a) What do you mean by symbol table?
- b) What is the role of a Finite automata and Grammar in system programming?
- c) Describe the terms: system and application programming.
- d) What is shell? How it is different from kernel?
- e) What is the difference between an editor and word processor?
- f) What is Lexical analysis?
- g) List various functions of an operating system?
- h) What is the advantage of multi-pass assembler over single-pass assembler?
- i) Differentiate between Macro and Subroutine.
- j) What are interrupts?

J-588[8129]

P.T.O. .

Download all Notes and papers from StudentSuvidha.com

Download all Notes and papers from StudentSwwindharsonjents.com

Section - B

$$(4 \times 5 = 20)$$

- Q2) What Data structures are required in Pass I of an assembler for the purpose of assembly? Describe in brief.
- Q3) In what way, the direct linking loading is better than relocation loading?
- Q4) What do you mean by debugging? Briefly discuss various debugging schemes.
- Q5) Differentiate between Relocatable and self-relocating programs with an example.
- Q6) Discuss in detail the advantages of dynamic linking over static linking.

$$(2\times10=20)$$

- Q7) What do you mean by Bootstrapping of a compiler? Name different phases of a compiler and explain how intermediate code generation phase is associated with syntax analysis and code optimization phase.
- Q8) What do you mean by address sensitive areas in an assembly language program? Can absolute loader handle these areas? If yes in which way?
- Q9) Write short notes on the following:
 - (a) Booting techniques.
 - (b) Editors.



J-588