Roll No. Tot

Total No. of Questions: 09] B.Tech. (Sem. - 4th) [Total No. of Pages : 01

SYSTEM PROGRAMMING

SUBJECT CODE: CS - 210 Paper ID: [A0462]

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
$$(10 \times 2 = 20)$$

- **Q1**) a) What is the use of symbol table?
 - b) What is the use of system call?
 - c) What is dynamic linking?
 - d) What is lexical analysis?
 - e) What is the difference between macro and subroutine?
 - f) What is difference between shell and a kernel?
 - g) What is literal table?
 - h) Explain finite automata and its use.
 - i) What is difference between multi pass assembler over simple pass assembler?
 - j) What is difference between relocatable and self relocating programs?

Section – B
$$(4 \times 5 = 20)$$

- Q2) What are different phases of a compiler?
- Q3) Explain the working of a two pass assembler with an example. Explain with the help of a flow charts.
- Q4) What is requirement of optimization? Discuss machine independent optimization techniques.
- Q5) What is the purpose of code generation phase? Explain with the help of example.
- **Q6**) What are various loader schemes? Explain each scheme with the help of diagram.

Section – C
$$(2 \times 10 = 20)$$

- **Q7)** Write short notes on the following:
 - a) Booting technique.
 - b) Editors.
 - c) Syntax and semantics.
 - d) Binder and overlays.
- **Q8**) a) Describe the working of shift reduce parser with an example.
 - b) What do you understand by memory management techniques in operating system? Explain.
- **Q9**) What is editor? Name various types of editors. Explain main commands of Vi-editor.

(B)(B)(B)

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