**Subject:System Programming**

**Subject Code:CST-315**

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| Q. No | Statement | CO mapping |
| **Section A**  5 x 2 = 10 marks | | |
| 1 | Briefly define functions of Macro Assembler. | CO1 |
| 2 | Define the term Ambiguity w.r.t Parsing. | CO3 |
| 3 | List various program extensions during program writing, translation & Execution. | CO5 |
| 4 | Justify the need of Operating System in program Execution. | CO4 |
| 5 | List features of MS-DOS Editor. | CO5 |
| **Section B**  4 x 5 = 20 marks | | |
| 6 | Discuss System Software development with all steps. | CO1 |
| 7 | Briefly explain all tuples of DFA. Make a transition diagram of the regular grammar given as   * String ended with 101 | CO3 |
| 8 | Define YACC. Implement with an example. | CO4 |
| 9 | How Memory management & file Management taken place in Operating System. | CO5 |
| **Section C**  3 x 10 = 30 marks | | |
| 10 | Explain following terms w.r.t. Assembler.   1. Design criteria of Assembler 2. Assembler for Intel x86 | CO2 |
| 11 | Highlight the importance of Intermediate code representation. Show Three Address code, Quadruple & triples representation with a suitable example. | CO3 |
| 12 | How Booting is performed in Operating System. Explain Design of Shell & kernel in Operating System. | CO5 |

Best wishes!!

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