**Maximum marks for Assignment: \_\_\_\_7 Assignment Declaration Date: 21/7/2025**

**Assignment Submission Date: ( 4/8/2025 ) Assignment assessment declaration Date by faculty: (4/8/2025 )**

| **Q. NO** | **Question Statement** | **Level of mapping & NO.** | | | **Blooms Level** | **Marks** |
| --- | --- | --- | --- | --- | --- | --- |
| CO | PO | PSO |
| Q1. | Define language processors also explain language processing tools. | CO1 & 3 | PO1 |  | 2 | 4 |
| Q2 | Write algorithm for pass-II assembler. | CO1 | PO2 & 3 |  | 2 | 5 |
| Q3 | Explain following directives with respect to Pass-I and Pass-II  1. LTORG 2. ORIGIN 3. EQU | CO1 | PO1 |  | 1 | 6 |
| Q4 | Explain the following in detail :   1. 1. Linkage editor 2. Dynamic linking 3.Bootstrap loaders | CO1 & 3 | PO1 |  | 2 | 4 |
| Q5 | How literals are processed by assembler | CO1 | PO1 |  | 1 | 4 |
| Q.6 | Explain different data structures used in designing Pass-I and Pass-II assembler. | CO1 | PO1 &2 |  | 2 | 3 |
| Q.7 | What are the tasks of analysis and synthesis phase of language translator | CO1 | PO1 |  | 2 | 4 |
| Q.8 | What is the difference between literal and immediate operand. How the assembler handles them. Give an example | CO1 | PO1,4 |  | 4 | 4 |
| Q.9 | Explain in brief imperative statements, assembler directives, declaration  statements with help of assembly language | CO1 | PO1 |  | 1 | 4 |
| Q.10 | Design a Pass 1 of two pass assemblers. | CO1 | PO1 & 4 |  | 2 | 4 |
| Q.11 | What is forward reference? How is it handled in a single pass assembler? | CO1 | PO1 |  | 2 | 2 |
| Q.12 | Difference between Literal & Immediate operand (Constant). | CO1 | PO1 |  | 2 | 2 |
| Q.13 | Explain the output of pass-I of two pass Assembler with respect to the given program:  START 600  READ A  READ B  LOOP MOVER AREG, A MOVER CREG, B  SUB AREG,=’l’  BC GT,LOOP  STOP  A DS 1  B DS 2  END | CO1 | PO1,PO2 |  | 3 | 7 |
| Q14 | Consider the following Assembly code and show output of pass-I of two pass Assembler with entries in Mnemonic Opcode Table, Pseudo Opcode Table, Symbol Table, Literal Table and Pool Table.  PROG START 50  USING PROG+2, 15  L1, FIVE  Al, = F ‘2’  LTORG  ST 1, RES  FIVE DC F ‘4’  RES DS F ‘4’  RES DS IF  END | CO1 | PO1,PO2 |  | 3 | 7 |
| **Blooms level no** |  | | | | | |
| **6** | **Description: Image result for bloom's taxonomy** | | | | | |
| **5** |
| **4** |
| **3** |
| **2** |
| **1** |

**Subject In-charge HOD**