| Total No. | of Question | ns:6] | (| SI SI | EAT No.: | |
|----------------|--------------------|---------------------------------|---------------|---------------|-------------|------------------|
| P45 | | | | | [Total | No. of Pages : 2 |
| | | TE/IN | NSEM/A | PR-50 | | |
| | T.E | . (Computer I | Engineerii | ng) (Semes | ster - II) | |
| 310251 | :SYSTEN | MS PROGRAMN | 20 | | GSYSTE | M (SP & OS) |
| | | | 015 Patte | rn) | | |
| Time : 1 H | Hour] ons to the A | Partidates: | | | [M | ax. Marks: 30 |
| 1) | | unatautes viestions Q.1 or (| Q.2, Q.3 or Q | Q.4, Q5. or Q | .6. | |
| 2) | | grams must be di | | er necessary | v. 9- | |
| 3) | Assume s | suitable data, if n | iecessary. | | 3 | |
| | | | _ | | | |
| Q1) a) | .90. | ollowing system | software co | omponents w | with suitab | le diagram.[5] |
| | i) Cor | npiler | ii) | Loader | Y | |
| | iii) Edi | tor | iv) | Linker | | |
| | v) Del | ougger | 3 | 20 | | |
| b) | Consider | following Asser | mbly code a | nd show out | tput of pas | ss-1 and pass-2 |
| | of two p | ass assembler w | | | | |
| | PROG | START | 100 | | | 9 |
| | | USING | *,15 | | | |
| | | SR | 4,4 | | | |
| | | L & | 1, ONE | | | |
| | | USING SR L A | 1,=F'2' | | | 90. |
| | | ST | 1,RES | | 9 | 0. |
| | RES | DS | 2F | | 7, 0 | |
| | ONE | DC | F'1' | R | 2 | |
| | ONL | | 1. 1 | | 20, | |
| | | END | 0.5 | 0 | | |
| | | | OR | 6. | | |
| | | | | | | P.T.O. |
| | | | | O'XO. | | |
| | | | | . " | | P.T.O. |

| Q2) | a) | Draw and explain flowchart of Pass-2 of two pass assembler. | [5] | | | | |
|-------------|------------|---|--------------|--|--|--|--|
| | b) | What are the databases used by pass-1 and pass-2 of assembler. E | xplain | | | | |
| | | them with their format. | [5] | | | | |
| | | | | | | | |
| Q 3) | a) | Differentiate between Static libraries and Dynamic Libraries? | [4] | | | | |
| | b) | Draw and explain flowchart of single pass macro processor. | [6] | | | | |
| | | OR | | | | | |
| Q4) | a) | Explain working of "General Loading Scheme" with advantage | es and | | | | |
| | | disadvantages | [5] | | | | |
| | b) | What are the types of arguments used with macros? Explain | with | | | | |
| | | suitable example. | [5] | | | | |
| | | | | | | | |
| Q 5) | a) | Write LEX program to recognize keywords, integer numbers, fl | oating | | | | |
| Q 3) | <i>a)</i> | point numbers, variables and comments in "C" program? | [5] | | | | |
| | L) | | | | | | |
| | b) | What are the roles of Lexical analyzer? Explain with suitable diagramment of the control of the | | | | | |
| Q6) | a) | Justify need of YACC? Explain working of YACC with suitable di and example? What is interpreter? Explain use and components of interpreter? \[\text{OP} \times \text{OP} \] \[\text{OP} \times \text{OP} \text{OP} \] SEM/APR-50 2 | agram [5] | | | | |
| | b) | What is interpreter? Explain use and components of interpreter? | [5] | | | | |
| | | No. | Y | | | | |
| | | what is interpreter? Explain use and components of interpreter? → → → → → → → → → → → → → → → → → → → | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | 6. | | | | | |
| | 26. | | | | | | |
| TE/ | INS | SEM/APR-50 2 | | | | | |