| Total No. | of Questions : 4] | SEAT No. : | |
|-------------------------------------|--|---|---------------|
| PC-27 | [6360]-27 | [Total No. o | f Pages : 2 |
| T.E. (Computer Engineering) (Insem) | | | |
| SYSTI | EMS PROGRAMMING AND | | STEM |
| | (2019 Pattern) (Semeste | () |) |
| | (201) Theterin (Semeste | 1) (810218) | |
| <i>Time</i> : 1 <i>1</i> | Hour] | [Max. M | Tarks: 30 |
| Instructio | ons to the candidates : | | |
| 1) | Answer Q1 or Q2, Q3 or Q4. | 0,0 | |
| 2) | Neat Diagrams must be drawn whereve | er necessary. | |
| 3) | Figure to the right indicate full marks. | 'نين ' | |
| <i>4</i>) | Assume suitable data if necessary. | | |
| | 8. | | |
| 01) | | Y 1 00 | .1 |
| Q 1) a) \ | Draw and explain flowchart of pase example. | ss I of two pass assemi | [8] |
| b) | Differentiate: | × | |
| U) | | | [7] |
| | i) Literal and Immediate operand. | • | |
| | ii) Assembler and Compiler | | |
| ()2) -) | Canaidan fallanina Adam Branda | | I of 42 |
| Q2) a) | Consider following Assembly code and show output of pass-I of two pass Assembler with entries in Mnemonic Opcode Table, Pseudo | | |
| | Opcode Table, Symbol Table, Litera | al Table and Pool Table | , 1 scam |
| | PROG START 50.00 | ar ruore una roor ruore. | |
| | USING PROG+2, 15 | | \mathcal{N} |
| | L1, FIVE | | ") |
| | Al, = F '2' | 20, 10 | |
| | LTORG | | |
| ~) | ST 1, RES | | |
| | FIVE DC F '4' | (6) | |
| | RES DS F '4' | A) 00 | |
| | RES DS IF | nemonic Opcode Table al Table and Pool Table. | |
| | END | 6. | |
| b) | Enlist and explain necessity of differ | rent data etructurae ucad | in Pacc. I |
| U) | of two pass Assembler? | data structures used | [7] |

P.T.O.

Q3) a) Explain the Phases of Compiler and their output with an example. [8] Define macro. What are the advantages of macro facility? How they b) are different from function. [7] What is the use of AIF and AGO pseudo-op in macro? Explain macro **Q4**) a) expansion with positional parameter with the help of suitable example. [8] Explain the concept of single pass Macro processor with example. b) Give example for macro calls within the macro. [7]