

Total No. of Questions : 4]

SEAT No. :

PA-4978

[Total No. of Pages : 2

[6008]-230

S.E. (Computer) (Insem.)

MICROPROCESSOR

(2019 Pattern) (210254) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4.
- 2) Figures to the right indicate full marks.

Q1) a) Explain the architecture of the 80386 microprocessor with an appropriate diagram. [5]

b) Describe the following addressing modes of 80386 with example [6]

- i) Index addressing mode
- ii) Direct addressing mode
- iii) Based index mode

c) Describe the use of various 80386 Data Movement Instructions in assembly language programming with examples. [4]

OR

Q2) a) Describe the various operating modes of 80386. [5]

b) Describe the following addressing modes of 80386 with example [6]

- i) Register addressing mode
- ii) Register Indirect addressing mode
- iii) Immediate addressing mode

c) Explain the General Registers and Segment Registers of 80386 with an appropriate diagram. [4]

P.T.O.

- Q3)** a) Explain the 80386 processor state after Reset. [5]
b) Draw and Explain Read Cycle with non-pipelined address timing. [5]
c) Draw and Explain Control Registers of 80386. [5]

OR

- Q4)** a) Explain the following signals [5]
i) INTR
ii) ADS#
iii) READY#
iv) HOLD
v) NMI
b) Draw and explain the Write Cycle with non-pipelined address timing. [5]
c) Draw and Explain Debug Registers of 80386. [5]
