Total No. of Questions : 4]

PB27

SEAT No. :

[Total No. of Pages : 1

[6268]-221

S.E. (Computer Engineering) (Insem) PRINCIPLES OF PROGRAMMING LANGUAGES (2019 Pattern) (Semester-IV) (210255)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the condidates:

- 1) Answer Q.1 or Q.2 Q.3 or Q.4.
- 2) Near diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

Q1) a) Why are there so many programming languages? What factors influence the choice of a programming language for a particular task? [5]

- b) What is the importance of binding time? Explain various classes of binding time. [5]
- c) Explain the difference between a syntax error and a logical error in programming. [5]
- **Q2)** a) Explain the characteristics of a good programming languages? [5]
 - b) How the translation and interpretation is performed in various languages? differentiate between them. [5]
 - c) What is syntax and semantice? Illustrate with an example how syntax and semantics are useful in programming languages design? [5]
- Q3) a) What are the different control flow structures used in programming, explain with an example? [5]
 - b) What are functions and why are they important for code orgnization explain with an example? [4]
 - c) What is a mixed-mode-expression? Explain short circuit evaluation with an example. [6]

OR

- Q4) a) What are primitive data types? List the primitive data types in Java and their respective storage capacity? [5]
 - b) Why selection and iteration statements are used in programming languages. What is the general from of a two-way selector? [4]
 - c) Explain how pointers differ from references with example? [6]



Total No. of Questions : 4]

PB26

[6268]-220 S.E. (Computer Engineering) (Insem) MICROPROCESSOR (2019 Pattern) (Semester - IV) (210254)

Time : 1 Hour]

2. A. 1. A. O. C. L.

SEAT No. :

[Total No. of Pages : 2

Max. Marks : 30

[5]

- Instructions to the candidates:
 - 1) Answer Q.1 or Q.2 and Q.3 or Q.4.
 - 2) Neat diagrams must be drawn wherever necessary.
 - 3) Figures to the right indicate full marks.
 - 4) All questions carry equal marks.
 - 5) Assume suitable data, if necessary.
- Q1) a) Explain architecture of 80386 microprocessor with block diagram. [5]
 - b) Explain following instructions
 - i) MOV
 - i) PUSH
 - iii) POP
 - iv) CBW
 - v) MOVSX
 - c) Explain following addressing modes in 80386 processor with example[5]
 - i) Immediate addressing mode
 - ii) Register addressing mode
 - iii) Register Indirect addressing mode

OR

- *Q2*) a) Draw and elaborate programmers model of 80386 processor. [5]
 - b) With necessary example, explain various Decimal Arithmetic Instructions.

Explain following addressing modes in 80386 processor with example[5]

- i) Direct addressing mode
- ii) Index addressing mode
- iii) Based-scaled-index with displacement addressing mode

P.T.O.

[5]

S. S.

