

Total No. of Questions : 4]

SEAT No. :

**PF215**

[Total No. of Pages : 2

**APR-26/SE/Insem-264**

**S.E. (Computer Engineering) (Insem)**

**PRINCIPLES OF PROGRAMMING LANGUAGES**

**(2019 Pattern) (Semester - IV) (210255)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer two questions: Q.1 or Q.2 and Q.3 or Q.4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Assume suitable data, if necessary.*
- 4) *Neat diagrams must be drawn wherever necessary.*

- Q1)** a) What is programming paradigm? List various programming language paradigm with suitable example? [5]
- b) Explain the Impact of machine architecture on programming language. [5]
- c) List the different classes of binding times. Explain with suitable example. [5]

OR

- Q2)** a) Explain the role of programming language in software development. [5]
- b) Compare procedure oriented and object oriented programming language. [5]
- c) List attributes of a good programming language and explain any two in detail. [5]

- Q3)** a) What is built in and primitive data types? Discuss primitive data types of C++ and Java. [5]
- b) Explain with example the need of type conversion in programming languages with its types. [4]
- c) What is abstract Data types? Design issues of abstraction .How C++ implements abstract data types? Give Example [6]

OR

*P.T.O.*

- Q4)** a) How does the C support relational and Boolean expressions with example. [5]
- b) Describe ordinal types: Union type with C++ example. [4]
- c) Explain following concepts with example. [6]
- i) Overloaded unary operator.
  - ii) Mixed mode Assignment.

