

Total No. of Questions : 4]

SEAT No. :

**PD27**

[Total No. of Pages : 1

**[6409]-224**

**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 Q.1 or Q.2, Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Make suitable assumption whenever necessary.

- Q1)** a) Write down the Role of Programming Languages and discuss about Programming Environment. [5]  
b) Describe various attributes of a Good Programming Language with suitable example. [5]  
c) Explain Impact of Programming Paradigms in detail. [5]

OR

- Q2)** a) Write short note on: [5]  
i) Virtual Computers  
ii) Binding Times  
b) List down Four Programming Paradigms. For any three state which programming languages are based on them and how? [5]  
c) How to calculate Cost of any Programming Language? Explain with suitable example. [5]

- Q3)** a) Define Built-in and Primitive data types. State the primitive data types used in C++ and Java programming languages. [5]  
b) Explain Design Issues for Subprograms and Parameter Passing methods in detail. [5]  
c) Write short note on: [5]  
i) Associative array and records.  
ii) Ternary operator

OR

- Q4)** a) What are Abstract Data Types? How C++ implements Abstract Data Types? Give example. [5]  
b) Write short note on: [5]  
i) Iterative Statements  
ii) Unconditional Branching  
c) Explain Type Checking and Type Conversion. [5]

