PB27

[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 candidates:

1)   Answer Q.1 or Q.2 Q.3 or Q.4.

2)   Neat 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]**

OR

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 semantics? 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]**

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