

806 - 811
6

123 A

24176

B.Tech. 4th Semester (CSE) Examination, May-2016

PROGRAMMING LANGUAGE

Paper-CSE-204-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question No. 1 is compulsory. Attempt five questions in total at least one question from each section. Each question carries equal marks.

1. (a) Explain difference between compiled and Interpreted language. 10×2
- (b) Define a record type.
- (c) What are memory leaks.
- (d) What do you mean by predefined referencing environment ?
- (e) What do you understand by garbage collection ?
- (f) Define the concept of abstraction.
- (g) What does a linker do ?
- (h) In what ways are co-routine different from subprograms ?
- (i) Give three fundamental features of object oriented programming.
- (j) Name various parameter transmission schemes.

Section-A

2. (a) Define programming language. Explain the syntax and semantics rules of programming language. 10
- (b) Write short note on numeric data types. 6
- (c) Explain enumeration in detail. 4

24176-P-3-Q-9(16)

[P.T.O.]

3. (a) Explain various characteristics of good programming language. 10
 - (b) Explain various classes of translation. 10
- Section-B**
4. (a) Explain vectors and its implementation. 10
 - (b) What is abstraction and how it is different from data hiding? Give an example. 10
 5. (a) Define array and its implementation in programming language. 10
 - (b) Explain various operations and data structures. 10

Section-C

6. (a) Differentiate between static and dynamic scope with examples. 10
- (b) Discuss various parameter transmission schemes with example. 10
7. (a) Explain sequence control with expressions and examples. 10
- (b) What do you mean by simple call return subprograms and recursive subprograms? 10

Section-D

8. Explain the features of :
 - (a) Procedural language
 - (b) Non Procedural language
 - (c) Structured language
 - (d) Functional language. 20
9. (a) Explain Dangling reference in storage management. 10
- (b) Explain major program element requiring storage during execution. 10