

(iii) Exceptions and exception holders

(iv) Sequence control

SECTION – D

8. Explain Heap Storage Management with fixed and variable sized elements. 20
9. (a) Explain the concept of programmer and system control management. 10
- (b) Explain major run time elements that require storage.

102
3

Roll No.

24176

B. Tech. 4th Semester (CSE)

Examination – May, 2017

PROGRAMMING LANGUAGE

Paper : CSE-204-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

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

1. (a) What is coroutine ? 10 × 2
- (b) What is early binding ?
- (c) What are memory leaks ?
- (d) Define Boolean data type and real data type.
- (e) Define Dynamic Scope.

- (f) Define syntax and semantics.
- (g) Define an array.
- (h) Give the difference between implicit and explicit sequence control ?
- (i) What does L-value and R-Value of a variable mean ?
- (j) Explain the need of storage management in brief ?

SECTION – A

- 2. (a) What do you understand by data types ? Explain the implementation of elementary data types. 10
- (b) Discuss various programming language translators. 10
- 3. (a) What do you mean by type checking and type conversion ? 8
- (b) Explain the following : 12
 - (i) Compiler
 - (ii) Interpreter
 - (iii) Linker
 - (iv) Boolean data types

SECTION – B

- 4. (a) Define vector and its implementation in a programming language ? 8
- (b) Write short note on : 12
 - (i) Encapsulation
 - (ii) Information Hiding
 - (iii) Abstraction
 - (iv) Abstract data types
- 5. (a) What do you mean by subprogram definitions and subprogram activations. 10
- (b) Specify operations and implementation of structured data types. 10

SECTION – C

- 6. Explain static scope and dynamic scope ? 20
- 7. What do you mean by : 20
 - (i) Simple call return subprograms
 - (ii) Recursive subprogram