(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.

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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) Interpretor

(iii) Linker

(iv) Boolean data types

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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

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