Total No. of Questions—8]   [Total No. of Printed Pages—2

Seat No.	

[5559]-194

S.E. (Computer Engg.) (Second Semester) EXAMINATION, 2019

PRINCIPLES OF PROGRAMMING LANGUAGES

(2015 PATTERN)

Time : 2 Hours   Maximum Marks : 50

N.B. :   (i)   All questions are compulsory.
         (ii) Figures to the right indicates full marks

Que. 1

a.   What is the difference between Applets & Application programs? Draw & explain lifecycle of Applet with example. [7]

b.   What are the types of Exceptions? Explain any 3 Built-in Exceptions with suitable example. [6]

OR

Que. 2

a.   Define the following
   i.   Streams
   ii. Byte Streams   [7]
   iii. Character Streams
   iv. Predefined Streams
   Enlist the methods of Print Writer class with example.

b.   What are uncaught Exceptions? State the use of try(), catch(), throw() methods. [6]

Que. 3

a.   Define the term SDLC. What are the different phases in SDLC? Describe the Waterfall model in detail with diagram. [6]

b.   Differentiate between static & dynamic Type Checking. Explain Cartesian product model with suitable example. [6]

OR

Que. 4

a.   What is mean by Syntax & Semantics? Explain syntax & lexical rules of programming language with example. [6]

b.   What is Built-in & Primitive data types? State the primitive data types of C++ & Java. [6]

Que. 5

a.   State the use of following constructs in Java
   i.   Method Overriding
   ii. Abstract class   [6]
   iii. Use of final keyword

b.   What is mean by Packages & Interfaces in Java? Explain with suitable example. [7]

Que. 6
a. What is Inheritance? How multilevel inheritance is achieved in Java? Explain with suitable example. [7]
b. What is mean by recursion? Write a java program to find out factorial of given number. [6]

Que. 7
a. What is mean by modularity? Which concepts are supported to achieve modularity in any programming language? [6]
b. What are Strings in Java? Explain following operations of class Strings in Java with example.
    i.   To find length of the string [6]
    ii.   To compare two strings
    iii.   Extraction of a character from string
OR

Que. 8
a. How to create generic module in programming language? Explain the term Template with example in C++ language. [6]
b. Explain Java's role in internet. Justify the following features of Java
    i.   Secure
    ii.   Architecture Neutral [6]
    iii.   Distributed