

Sub: Programming in Java

Paper: C3: CSC-HC-2016

Total Marks: 50

Submission Date: On or before 7 August

- 1 Java is said to be_____. 1
a)Compiled b)interpreted c) both compiled and interpreted d)none of these
- 2 For compiling Java Code___tool is used. 1
a)javac b)java c) javadoc d) jar
- 3 What is the process of defining a method in terms of itself that is a method that calls itself? 1
a)Polymorphism b) Abstraction c) Encapsulation d) Recursion
- 4 Java source code is compiled into_____. 1
- 5 _____ is a special kind of method that determines how an object is initialized when created. 1
- 6 What is String? 2
- 7 Explain the use of extend keyword with suitable example. 2
- 8 What is access specifier? 2
- 9 What is the use of super keyword? 2
- 10 Explain the use of final keyword? 2
- 11 Differentiate between constructor and method. 3
- 12 Explain the static members in Java. 3
- 13 What are the advantages of using inheritance? 3
- 14 What is the difference between superclass and subclass? 3
- 15 Compare static and dynamic binding. 3
- 16 What is the difference between class and interface? 5
- 17 Write the difference between abstract class and interface? 5
- 18 Create an abstract base class shape with two members base and height, a member function for initialization and a pure virtual function to compute area(). Derive two specific classes triangle and rectangle which override the function area(). Use these classes in a 10

main function and display the area of a triangle and a rectangle.

OR

- 19 Write a program to define abstract class, with two methods addition() and subtraction(), addition() is abstract method. Implement the abstract method and call that method using a program(s). 10