SARDAR PATEL UNIVERSITY
T.Y.B.Sc : SEMESTER – VI : 2016
INFORMATION TECHNOLOGY
US06CINT03: Object Oriented Programming using Java

Date: 01-04-2016, Friday   Time : 02:30pm to 05:30pm   Max. Marks: 70

Q.1   Multiple choice of Question: 10

[1] Java interpreter translates _____ into machine code.
   (a) Bitcode   (b) Machine Code
   (c) Bytecode   (d) User code

[2] The _____ includes hundred of classes and methods grouped into several function packages.
   (a) API   (b) JVM
   (c) JAVAC   (d) JRE

[3] ____ is use for naming classes, methods, variables etc in a program.
   (a) Operator   (b) Separator
   (c) Identifier   (d) Constructor

[4] _____ constructor is created when object of particular class is created.
   (a) Default   (b) Parameterized
   (c) Copy   (d) None of these

[5] _____ methods must be override in the subclass.
   (a) public   (b) final
   (c) abstract   (d) static

[6] _____ keyword is used to inherit a class.
   (a) extend   (b) extends
   (c) implement   (d) implements

[7] _____ presents a uniform, easy-to-use, object-oriented interface between the program and the input/output devices.
   (a) Reader   (b) Output
   (c) Input   (d) Stream

[8] Which package is used for creating and implementing applets.
   (a) java.lang   (b) java.util
   (c) java.applet   (d) java.awt

[9] In itemStateChanged( ) method, we must pass object of _____ class.
   (a) ItemEvent   (b) EventAction
   (c) EventItem   (d) ActionEvent

[10] JDBC application must import _____ package.
   (a) io   (b) sql
   (c) event   (d) util

Q.2 Answer the following questions in short (Any 10) :   20

[1] Java is platform-independent and portable. - Justify.

[2] What is JVM(Java Virtual Machine)?

[3] Write down the rules for variable naming.

[4] Differentiate between Classes and Interface.

[5] Define class. How does it accomplish data hiding?

[6] Define static keyword.

[7] Give examples of the Run-time error.

[8] List the methods of Writer class.

[9] List the java API packages.

[10] Explain methods setForeground( ).

[11] Explain methods setBackground( ).

[12] What is event delegation?

Q.3 [A] List out the looping statements available in java. Explain with   5
example.

[B] Explain the data types available in java.   5

OR

Q.3 [A] Explain the scope of variable.   5

[B] List out the decision making statements available in java. Explain   5
with example.

Q.4 Define inheritance. Describe different forms of inheritance with   10
example.

OR

Q.4 [A] Explain super and final keyword with example.   5

[B] What is a constructor? What are its special properties?   5

Q.5 Explain any five methods of String class by giving an example.   10

OR

Q.5 [A] What is package? What are the benefits of package? Explain Java   5
API packages.

[B] Write a short note on Character Stream classes.   5

Q.6 [A] Explain Applet life cycle in detail.   5

[B] Write short note Checkbox and Choice components.   5

OR

Q.6 Write short note on following components: 10
1. Label, 2. List, 3. Button, 4. TextField