

**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 example.	5
	[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 with example.	5
Q.4	Define inheritance. Describe different forms of inheritance with example.	10
	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 API packages.	5
	[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: 1. Label, 2. List, 3. Button, 4. TextField	10

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(2)