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**SARDAR PATEL UNIVERSITY**  
**T.Y.B.Sc : SEMESTER – VI**  
**BIO INFORMATICS**

**US06CBNF02: Object Oriented Programming using Java**

Date: 28-03-2018, Wednesday

Time: 10:00pm to 01:00pm

Max. Marks: 70

Q.1	<p>Multiple choice of Question:</p> <p>[1] Java _____.</p> <p>a) Only compiles                      b) Only interprets  c) Compiles and then interprets    d) Interprets &amp; then compiles</p> <p>[2] _____ is a group of contiguous or related data items that share a common name.</p> <p>a) Variable      b) Array      c) Constant      d) none</p> <p>[3] _____ operator is used to construct conditional expression.</p> <p>a) Dot(.)      b) instanceof      c) Ternary(?:)      d) None</p> <p>[4] _____ keyword is used to inherit a class.</p> <p>a) extend      b) extends      c) implement      d) implements</p> <p>[5] The subclass constructor uses the _____ keyword to invoke the constructor of the superclass.</p> <p>a) super      b) Final      c) static      d) public</p> <p>[6] We cannot create a subclass of _____ class.</p> <p>a) Abstract      b) public      c) static      d) final</p> <p>[7] _____ provide a way to “hide” classes thus preventing other programs or packages from accessing classes that are meant for internal use only.</p> <p>a) Package      b) Thread      c) Constructor      d) Interface</p> <p>[8] All syntax errors are known as _____.</p> <p>a) Run-time      b) Exception      c) Logical      d) Compile-time</p> <p>[9] JDBC has been developed under _____.</p> <p>a) JPC      b) JCP      c) JDC      d) OBDC</p> <p>[10] JDBC application must import _____ package.</p> <p>a) io      b) util      c) event      d) sql</p>	10
Q.2	<p>Attempt any 10 questions:</p> <ol style="list-style-type: none"> <li>1. Java is distributed language – Justify.</li> <li>2. What is JVM(Java Virtual Machine)?</li> <li>3. Write down the rules for variable naming.?</li> <li>4. Define constructor. How do we invoke constructor in JAVA?</li> <li>5. Define static keyword.</li> <li>6. Define the final variable and final methods.</li> <li>7. List the java API packages.</li> <li>8. List the methods of Reader class.</li> <li>9. Give examples of the Run-time error.</li> <li>10. List out methods of MouseListener.</li> </ol>	20

	11. Write difference between java applet program and java application program. 12. List down methods for ItemEvent class.	
Q.3	List out the decision making statements available in java. Explain with example.  OR	10
Q.3	List out the looping statements available in java. Explain with example.	10
Q.4	Write short note on method overloading and method overriding  OR	10
Q.4	Describe the various forms of implementing interface. Give example of JAVA code for each case.	10
Q.5	Explain any five methods of String class by giving an example.  OR	10
Q.5	[A] Describe the try and catch statements in detail. [B] Describe concept of stream.	5 5
Q.6	Write short note on TextArea, Button and List.  OR	10
Q.6	Write short note on Checkbox, TextFied and Label.	10

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