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SARDAR PATEL UNIVERSITY
External Examination November -2012
Masters in Information Technology (INT) – Semester - III
PS03CINT01: Java Programming

Friday, 30-Nov -2012

Time: 10:30 a.m. to 1:30 p.m.

Max. Marks: 70

Q-1	Select appropriate answers from given list of choices.	[8]
	<p>1. Which operator is used to create an instance of a class or an array?</p> <p>i) instanceof ii) null iii) new iv) shift</p>	
	<p>2. Which of the following makes four top level containers in swing applications?</p> <p>i) JFrame, JApplet, JWindow, JDialog ii) JFrame, JApplet, JPanel, JDialog iii) JFrame, JApplet, JPanel, JRootPane iv) JFrame, JApplet, JPanel, JScrollPane</p>	
	<p>3. 'System' is a class in which of the following packages?</p> <p>i) java.lang ii) java.io iii) java.util iv) java.sql</p>	
	<p>4. The environment variable ____ is used to indicate the locations from where classes can be loaded.</p> <p>i) PATH ii) CLASSPATH iii) JAVA_HOME iv) OS</p>	
	<p>5. What is the default initial value of instance variables of type <i>int</i>?</p> <p>i) garbage ii) zero iii) null iv) none of these</p>	
	<p>6. To optimize the execution of the Java bytecode, the JVM uses a _____ compiler.</p> <p>i) JAVAC ii) JIT iii) JREC iv) GC</p>	
	<p>7. Which of the following statements is not correct about Java Swing System ;</p> <p>i) Each menu item acts as a button ii) When a menu item is selected, an action event is generated. iii) The class JMenuItem is a superclass of JMenu iv) The class JMenu is a superclass of JMenuItem.</p>	
	<p>8. Which of the following is the default layout manager of the Frame class?</p> <p>i) FlowLayout ii) BorderLayout iii) GridLayout iv) BorderLayout</p>	

Q-2	Briefly discuss following. (Attempt any Seven): 1. State the difference between String class and StringBuffer class. 2. List any four exception handling classes. 3. Write the use of File Class. 4. List any four attributes of JSP page directive? 5. Write any four methods of Reader class. 6. Explain the <i>javac</i> and <i>javap</i> commands with example. 7. List at least four classes of the java.awt package. 8. Write the application of ArrayList class. 9. Explain, with example, how an instance becomes eligible for garbage collection.	[14]
Q-3A)	What is Java? List and describe the features of Java in brief.	[6]
B)	i) Explain method overloading and method overriding with example. ii) Explain the use of the keyword <i>final</i> with example.	[6]
	OR	
B)	Explain different access modifiers in Java with example.	[6]
Q-4A)	What is an Applet? Explain the Life Cycle of an Applet.	[6]
B)	Explain the two different ways of creating a new thread of execution. Explain the different states of the thread.	[6]
	OR	
B)	Write a short note on i) Inner classes ii) Top Level Nested classes	[6]
Q-5A)	Discuss Event Delegation Model with example?	[6]
B)	What are the types of Wrapper classes? Explain the uses of any four Wrapper classes?	[6]
	OR	
B)	Write the steps to create RMI application?	[6]
Q-6A)	Explain the steps for querying databases using JDBC Driver.	[6]
B)	What is JSP? Explain JSP Expression, JSP <i>include</i> directive and <i>jsp:forward</i> action tag with example.	[6]
	OR	
B)	What is a Servlet? Write the Servlet program to display "Hello World" on browser.	[6]