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(A-100)

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SARDAR PATEL UNIVERSITY
M.Sc.(Information Technology)
SEMESTER-III
External Examination (NC) - 2015
PS03CINT01- (Java Programming)
21st April, 2015

Time:02:30pm to 05.30pm

Marks:70

Q1 Give answers of following Multiple choice questions [8]

- 1 Which is the Lightweight Component?
A AWT B Frame
C Swing D Applet
- 2 To optimize the execution of the Java byte code, the JVM uses a _____ compiler.
A JAVAC B JIT
C JREC D GC
- 3 Which of the following methods belong to the String class?
A Length() B compareTo()
C Substring() D All of them
- 4 Which of the following is not a container?
A TextArea B Frame
C Applet D Panel
- 5 Which of these keyword must be used to monitor for exceptions?
A try B finally
C throw D catch
- 6 Which operator is used to create an instance of a class or an array?
A Instanceof B null
C New D shift
- 7 A constructor that is automatically generated in the absence of explicit constructors called?
A Default Constructor B Nullary Constructor
C Empty Constructor D All the above
- 8 JDBC application must import _____ package.
A io B sql
C util D event

Q2 Do as directed (Any 7) [14]

- 1 Explain the use of **this & super** keyword with example
- 2 What is difference between RMI and CORBA.
- 3 Write the steps for creating an Applet.
- 4 Write any four methods of Writer class.
- 5 What is difference between class and object?
- 6 What is an Event? Describe Event Delegation Model?
- 7 What is JVM (Java Virtual Machine)?
- 8 Draw the graph showing the steps involved in execution of a java program.
- 9 Write the application of ArrayList class.

- Q3 [A] What is Java? List and describe the features of Java in brief. [6]
- Q3 [B] What is a package? List steps for creating a package and explain with example? [6]
- OR
- Q3 [B] What is Exception? Explain exception handling mechanism in java with suitable example. [6]
- Q4 [A] What is JDBC? Explain various JDBC drivers. [6]
- Q4 [B] What is a servlet ? What are its advantages & define its life cycle methods. [6]
- OR
- Q4 [B] What is JSP? Why should we use it? Mention the type of scripting elements used in JSP. [6]
- Q5 [A] What is layout manager? List different layouts and describe Border Layout in details with example [6]
- Q5 [B] What is a Thread? Explain two ways of Thread creating? Describe different state of a Thread. [6]
- OR
- Q5 [B] List and explain the different access specifiers in java with example. [6]
- Q6 [A] Explain Javabean in java with an example code snippet. [6]
- Q6 [B] Explain Java mail API in detail [6]
- OR
- Q6 [B] Explain inheritance and polymorphism in java with suitable example. [6]

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