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[70]

**SARDAR PATEL UNIVERSITY**  
**M.Sc.(Information Technology)**  
**SEMESTER-III**  
**External Examination (NC) - 2016**  
**PS03CINT01- (Java Programming)**  
**2<sup>nd</sup> April, 2016**

me:02:30pm to 05.30pm

Marks:70

Q1

**Give answers of following Multiple choice questions**

[8]

- 1 Which of this operator is used to allocate memory for an object?  
 A malloc B alloc  
 C new D give
- 2 To run an applet \_\_\_\_\_ command is used.  
 A run B Java  
 C appletviewer D Applet
- 3 Which Two Methods supported by java beans?  
 A getMethod & setMethod B getResponse & setResponse  
 C setVisible & setVisible D getSize & setLayout
- 4 What is the Full name of RMI?  
 A Remote method interface B Remote method invocation  
 C Remote member invocation D Rcmote member interface
- 5 Which is the Lightweight Component?  
 A AWT B Frame  
 C Swing D Applet
- 6 JDBC application must import \_\_\_\_\_ Package.  
 A Io B Util  
 C sql D event
- 7 The environment variable \_\_\_\_\_ is used to indicate the location from where classes can be loaded.  
 A PATH B CLASSPATH  
 C JAVA D NONE OF THESE
- 8 \_\_\_\_\_ Inheritance is not supported by java.  
 A Multilevel B Multiple  
 C Hierarchical D Single

Q2

**Do as directed (Any 7)**

[14]

- 1 List the names of Unchecked Exception classes.
- 2 What is difference between AWT and Swing?
- 3 Write the steps for creating an Applet.
- 4 Explain the life cycle of the servlet.
- 5 Describe Event Delegation Model.
- 6 Explain Javac and javap command.

- 7 Write any four methods of Reader class.
- 8 List any four exception handling classes.
- 9 What is difference between class and Object?

Q3 [A] What is Java? List all features of JAVA and explain any three. [6]  
 Q3 [B] What is a thread? Discuss different states of thread. [6]

**OR**

Q3 [B] Explain inheritance and polymorphism in detail in java with suitable example [6]

Q4 [A] What is JDBC? Explain various JDBC drivers. [6]  
 Q4 [B] Explain the use of this & super keyword with example. [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 Applet? Explain the Life cycle of an Applet. [6]  
 Q5 [B] What is Package? List steps for creating Package and explain with example. [6]

**OR**

Q5 [B] Explain Method overloading and method overriding with example. [6]

Q6 [A] Write steps to create RMI application? [6]  
 Q6 [B] List and explain different access specifiers in java. [6]

**OR**

Q6 [B] What are the types of Wrapper Classes? Explain use of any four Wrapper classes. [6]

~~X~~ ∴ X = X