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SARDAR PATEL UNIVERSITY  
M.Sc.(Information Technology)  
SEMESTER-III  
External Examination (NC)  
PS03CINT01- (Java Programming)  
10-April, 2018

Time: 10:00 am to 1:00 pm

Marks:70

Q1 Give answers of following Multiple choice questions

[8]

- 1 \_\_\_\_\_ execute the selected portions of Bytecode.  
A JVM B JIT  
C Both of these D None of these
- 2 \_\_\_\_\_ is the ability of an object to take on many forms.  
A Encapsulation B Abstraction  
C Polymorphism D None of these
- 3 \_\_\_\_\_ caused by math errors such as division by zero.  
A DivisionByZeroException B ArithmeticException  
C IOException D None of these
- 4 \_\_\_\_\_ driver converts the JDBC calls to Open Database Connectivity (ODBC) calls.  
A Type 1 B Type 2  
C Type 3 D Type 4
- 5 \_\_\_\_\_ stage occurs when the system starts running the applet.  
A Start B Paint  
C Stop D Run
- 6 The class \_\_\_\_\_ is a component which combines a button or editable field and a drop-down list.  
A JMenu B JList  
C JTextArea D JComboBox
- 7 \_\_\_\_\_ represents an Internet Protocol (IP) address.  
A InetAddress B SocketAddress  
C ClientAddress D None of these
- 8 \_\_\_\_\_ defines support for a single mailbox for each user.  
A SMTP B IMAP  
C POP D MIME

Q2 Do as directed (Any seven)

[14]

- 1 Explain two step process of running java program.
- 2 Differentiate between applets and java applications.
- 3 List all the standard stream supported by java.
- 4 List down the advantages of Type 4 driver.
- 5 Differentiate between Swing and AWT.
- 6 Define the following : 1) TCP 2) UDP
- 7 What is JSP?
- 8 Differentiate between CORBA and RMI.
- 9 List down the advantages of JavaBeans.

[P.T.O.]

- Q3 [A] Write a short note on different types of Java programs. [6]  
Q3 [B] Explain error handling mechanism in java. [6]  
OR  
Q3 [B] Draw and explain Applet Life Cycle. [6]
- Q4 [A] Write a short note on Native-API Partly-Java Driver. [6]  
Q4 [B] Explain a sample java program. [6]  
OR  
Q4 [B] Write a short note on event handling. [6]
- Q5 [A] What is a Layout? List and explain different layouts available in swing. [6]  
Q5 [B] List and explain different methods of ServerSocket class. [6]  
OR  
Q5 [B] Draw and explain Java Mail API Architecture. [6]
- Q6 [A] Write a short note on jsp:useBean action tag. [6]  
Q6 [B] Explain LinkedList class with example. [6]  
OR  
Q6 [B] Write a short note on JSP directives. [6]