

Roll No

MCA-405(A)

M.C.A. IV Semester

Examination, May 2019

Java Programming and Technologies

(Elective-I)

Time : Three Hours

Maximum Marks : 70

- Note: i) Attempt any five questions.
 ii) All questions carry equal marks.

1. a) Explain the various features of Java programming. 7
 b) Explain the steps required to develop Java application. Also discuss role of JVM. 7
2. a) Differentiate narrowing with widening. Explain with example. 7
 b) Explain the following: 7
 - i) Finalize () method.
 - ii) Garbage collection in Java.
 - iii) Use of this keyword.
3. a) Differentiate between C++ and Java with respect to inheritance. What is the role of 'Super' key word in Java 7
 b) Define interface. Explain how to define implement and assign variable in Interface to perform one interface multiple method. 7

4. a) Explain importance of multi threading. Demonstrate how multi threading can be implemented in Java to achieve parallalism. 7
 b) Write a program which contains one method which will throw an out of array index exception and use proper exception handles so that exception should be printed. 7
5. a) Explain different phases of applet development life cycle. 7
 b) Discuss few AWT containers with suitable example. 7
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6. a) Explain the role of event listeners in event handling list the Java event listeners. 7
 b) Differentiate between byte stream and character stream. How they used to read data truss user. 7
7. a) Write a Java program to read few records from a table using JDBC-ODBC bridge. 7
 b) How both TCP and UDP socket is created in Java in order to exchange. Messages between client and server. 7
8. Write short notes on any two: 14
 - a) RMI
 - b) Adapter class
 - c) Abstract class
 - d) Bitwise operator

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