

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MCA-405(B)**M.C.A. IV Semester**

Examination, May 2018

Java Programming and Technologies

(Elective - I)

Time : Three Hours

Maximum Marks : 70

- Note:** i) There are eight questions.
 ii) Attempt any five questions.
 iii) All questions carry equal marks.

1. a) How Widening and Narrowing conversion of data types carry out in Java? 7
 b) Write and explain rules of type promotion in Java with suitable example. 7
2. a) What are the different ways to declare and initialization of array in Java? 7
 b) What is the role of static key word? What kind of restrictions are associated with the static keywords. 7
3. a) How to achieve run-time polymorphism in java by over ridden methods? Write proper example. 7
 b) How to achieve synchronization in java among threads accessing shared data? 7

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4. a) Explain the terms thread scheduling, Daemon thread, selfish threads. 7
 b) What are the security issues associated with Applets? Explain life cycle of Applets in Java. 7
5. a) Write benefits of String Buffer class over String class in Java. 7
 b) Write a code in java that demonstrate use of Data Input Stream and Data Output Stream class to read and write data. 7
6. a) Write a code in Java that demonstrate the use of Text field and Button classes along with their events handler. 7
 b) Explain the terms pertaining to the events: 7
 i) Self contained event
 ii) Delegating event
 iii) Window event rgpvonline.com
7. a) Demonstrate the use of JDBC ODBC to select data from a table of a database. Write code in Java for the same. 7
 b) What do you mean by Socket Programming in Java? How UDP socket can be created in Java? 7
8. Write short notes on any two: 14
 i) RMI
 ii) Collection classes
 iii) Exception handling in Java
 iv) Garbage collection in Java

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