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[4966]-3001

MCA (Commerce Faculty) (Third Semester) EXAMINATION, 2016

301 : JAVA

(2013 PATTERN)

Time : Three Hours

Maximum Marks : 50

N.B. :— (i) *All* questions are compulsory.

(ii) Figures to the right indicate full marks.

1. Attempt any *seven* : [7×2=14]

- (a) Explain the use of list Iterator().
- (b) State any two difference of Java over C++.
- (c) Define method overloading and method overriding.
- (d) What is the purpose of wrapper class ?
- (e) Which class is at the top of exception hierarchy ?
- (f) List access specifiers.
- (g) Which is the default layout for frame ?
- (h) Difference between paint() and repaint().

2. Attempt any *three* : [3×4=12]

- (a) Write a Java program using swing to create three radio buttons. When any of them is selected an appropriate message should be displayed.

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- (b) Write a note on list interface.
- (c) Difference between interfaces and classes.
- (d) Write a Java program which will calculate factorial of a given number.

3. Attempt any *three* : [3×4=12]

- (a) Explain the following keywords :
 - (i) Static
 - (ii) Final.
- (b) Explain event handling using AWT with the help of example.
- (c) Create an abstract class media (id, description). Derive classes Book (PageCount) and CD (PlayingTime). Define parameterized constructors. Create one object of book and CD and display the details.
- (d) Write a class account with account number, name and balance between 1000 and 5000. Generate a user defined exception “Balance not within the range” if user enters wrong balance.

4. Attempt any *three* : [3×4=12]

- (a) Write a program to read n strings into Array list collection and display the elements in reverse order.
- (b) Explain all the keywords used in exception handling.
- (c) Write a note on Adapter Class.
- (d) Write a program which creates an applet. Accept a string in one textbox and display it in reverse case in another textbox.