M. Sc. (CA & IT) (Sem. IV) Examination
April/May - 2014

403 : Object Oriented Programming with Java

Time : 3 Hours] [Total Marks : 70

1 a Explain following terms 6
i Class and Object
ii JVM and Byte Code
iii Constructor

b Attempt following questions (Any two). 12
i Write a short note on features of Java.
ii Explain Java Program structure in detail.
iii List out all operators of Java. Explain relational and Logical operators in detail.

2 a Explain following terms 6
i Abstract class
ii Final method and final class.
iii Interface

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b Attempt following questions (Any two)  

i What do you mean by polymorphism? Explain function overloading with suitable example.

ii What is inheritance? Explain single inheritance with suitable example.

iii What do you mean by multithreading? Explain Thread priority with suitable example.

3 a Attempt following questions (Any two)  

i List out Byte stream classes and character stream classes.

ii Define Applet. What do you mean by local applet and Remote Applet?

iii Write a difference between application and applet.

b Attempt following questions (Any two)  

i Explain Life cycle of Applet with suitable example.

ii Explain Random access file with suitable example

iii Write a program for passing parameters to applet.
a Attempt following questions (Any two)

i  What is a use of layout manager? List out all layout manager.

ii List out all AWT controls.

iii What do you mean by Event listeners? List out all event listeners.

b Attempt following questions (Any two)

i  Write a program to implement various methods of graphics class.

ii Write a short note on event delegation model.

iii Write a short note on how to create a menu in Java.