[Additional Examplificand A-TR-T

VCD S.Y.B.S.C (C.S.) -Computer II -SEM-IV - 2014-15 - 75 -21/211RS 2105/20130

Q.1 Attempt any Four.

[20]

- a) Write a short note on nested and inner classes in Java.
- b) What do you mean by constructor? Also explain parameterized constructor with suitable example.
- c) Why finalize() method is used in Java?
- d) What are arrays? Explain one dimensional arrays in Java.
- e) Explain all features of Java.
- Admission in professional course is subject to the following conditions:

i) Marks in Mathematics

ii) Marks in Physics

>=50

iii) Marks in Chemistry

>=40

v) Total in all three subjects

>=200

Total in Mathematics and Physics

>=150

Given the marks of three subjects, write a program to process the applications of eligible candidates.

- g) What do you mean by method overloading? Illustrate with example.
- h) Differentiate between Java with C.

Q.2 Attempt any Four.

[20]

a) What are input and output stream? List two methods of each class.

- b) How interfaces can be used to support multiple inheritance? Develop a standalone java program to achieve the same.
- c) Create a try block that is likely to generate three types of exception and then incorporate necessary catch blocks to catch and handle them appropriately.
- d) What is an exception? Explain exception handling mechanism in java.
- e) What is inheritance? What are its different forms? Develop a java program to achieve single inheritance.
- f) What are the major differences between an interfaces and classes?
- g) Explain dynamic method dispatch.
- h) Write a java program to find fibonacci of a given number. Number should be inputted by the user.

Q.3 Attempt any Four.

[20]

- a) Differentiate an applet with an application.
- b) Write a short note on Windows Fundamentals.
- c) Explain following AWT controls:
 - i) TextArea
 - ii) CheckBox
 - iii) TextField

d) Explain following methods of Graphics class:

i) drawRoundRect()

- ii) setColor()
- iii) setFont()
- iv) fillArc()
- v) drawOval()
- e) Write a short note on BorderLayout and GridLayout.
- f) Explain following Event Claseses:
 - i) KeyEvent
 - ii) MouseEvent
- g) Write a short note on Delegation Event Model.
- h) Write a program using an applet to draw following:
 - i)Rectangle
 - ii) Square inside a circle.

Q. 4 Attempt any three.

[15]

- a) Compare in terms of their functions, the following pair of statements.
 - i) while and do...while
 - ii) break and continue
- b) Explain all types of visibility controls used in Java.
- c) Write a short note on abstract methods and abstract classes.
- d) What is a package? How do we design a package?
- e) Explain applet life cycle.
- f) Write an applet code to display a message "I am a Student" when a Key is pressed.

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