V(D 03 03 15 SEM-IV 2014-15-75-21/4RS

Q.1 Attempt any Four.

[20]

- a) Write a short note on JVM and JIT.
- b) What is a class? How does it accomplish data hiding?
- c) Write a program to sort given array elements.
- d) What do you mean by method overloading? Illustrate with example.
- e) What is the difference between instance members and static members?
- f) Compare in terms of their functions, the following pair of statements.
 - i) while and do...while
 - ii) while and for
- g) Explain ternary operator. Write a program to illustrate the concept of same.
- h) Explain Entry-controlled loop and Exit-controlled loop.

Q.2 Attempt any Four.

[20]

- a) What is finally block? When and how is it used? Give suitable example.
- b) Describe various forms of implementing interfaces. Give examples of java code for any one.
- c) How Java prevents overriding of the superclass method in subclass?
- d)How to achieve Run time polymorphism in Java?
- e) Compare and contrast overloading and overriding methods.
- f) What is a package? How do we design a package? Explain with example.
- g) What is an exception? Explain exception handling mechanism in java.
- h) What are input and output stream? List two methods of each class.

Q.3 Attempt any Four.

[20]

a) Write an applet code to display a messages "GOOD MORNING" on the screen with size 50. The message should display in Green color with Italic Font Style.

5/10

- b) Explain following AWT controls:
 - i) Label
 - ii) TextArea
 - iii) List
- c) Explain FlowLayout and BorderLayout.
- d) Write a short note on Delegation event model
- e) Write a short note on following:
 - a) Component
 - b) Container
 - c) Panel
 - d) Window
 - e) Frame
- e) Describe the different stages in the life cycle of an applet.

SEMIN 313 112

- f) Explain following event listener interface:
 - i) ActionListner
 - ii) ItemListner
- h) What are the different Color methods used in Java?.

[15]

- a) What do you mean by method overriding? Illustrate with example.
- b) Explain constructor overloading with proper example.
- c) Explain public, private, protected, friendly, private protected access used in Java.
- d)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.
- e) What is the difference between an applet and application?
- f) Write an applet code to draw the following shapes:



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