Code No: R05312203 **R05** **Set No. 2**

III B.Tech I Semester Examinations,December 2011
OOPS THROUGH JAVA
Instrumentation And Control Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Explain the following:
   (a) Creating an applet
   (b) Passing parameters to applets
   (c) Adding graphics and colors to applets. [4+4+8]
2. Explain the following Thread related exceptions with examples:
   (a) IllegalMonitorStateException
   (b) IllegalThreadStateException. [8+8]
3. (a) What is the difference between Internet address and InetAddress?
   (b) Explain datagrams. [8+8]
4. (a) How can you prevent a class from Inheritance?Explain with an example.
   (b) How can you prevent a method from overriding? Explain with an example.
   (c) What is the use of this keyword in java. [6+6+4]
5. (a) What is a package? How do we design a package?
   (b) How do we add a class or interface to a package? [8+8]
6. Distiguish between the following terms:
   (a) Objects and classes
   (b) Data abstraction and data encapsulation
   (c) Inheritance and polymorphism
   (d) Dynamic binding and message passing. [16]
7. (a) How do you scale a drawing object in java? Explain with an example java program.
   (b) What is the functionality supported by java related to colours. [8+8]
8. Write an application to solve quadratic equation of the form
   $AX^2+BX+C=0$

   Where the coefficients A,B and C are real numbers. The two real number solutions are derived by the formula
   $X = (-B \pm \sqrt{B^2 - 4AC})/2A$

For this exercise,you may assume that A $\neq 0$ and the relationship
$B^2 \geq 4AC$
holds, so there will be real number solutions for x. Use the standard input and output.

[16]

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Code No: R05312203 **R05** **Set No. 4**

III B.Tech I Semester Examinations,December 2011
OOPS THROUGH JAVA
Instrumentation And Control Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Explain the following:
   (a) Creating an applet
   (b) Passing parameters to applets
   (c) Adding graphics and colors to applets. [4+4+8]
2. (a) What is the difference between Internet address and InetAddress?
   (b) Explain datagrams. [8+8]
3. Write an application to solve quadratic equation of the form
   $AX^2+BX+C=0$
   Where the coefficients A,B and C are real numbers. The two real number solutions are derived by the formula
   $X = (-B \pm \sqrt{B^2 - 4AC})/2A$
   For this exercise,you may assume that $A \neq 0$ and the relationship
   $B^2 \geq 4AC$
   holds, so there will be real number solutions for x. Use the standard input and output.
   [16]
4. (a) How can you prevent a class from Inheritance?Explain with an example.
   (b) How can you prevent a method from overriding? Explain with an example.
   (c) What is the use of this keyword in java. [6+6+4]
5. Distiguish between the following terms:
   (a) Objects and classes
   (b) Data abstraction and data encapsulation
   (c) Inheritance and polymorphism
   (d) Dynamic binding and message passing. [16]
6. (a) How do you scale a drawing object in java? Explain with an example java program.
   (b) What is the functionality supported by java related to colours. [8+8]
7. (a) What is a package? How do we design a package?
   (b) How do we add a class or interface to a package? [8+8]

8. Explain the following Thread related exceptions with examples:
   (a) IllegalMonitorStateException
   (b) IllegalThreadStateException. [8+8]

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Code No: R05312203 **R05** **Set No. 1**

III B.Tech I Semester Examinations,December 2011
OOPS THROUGH JAVA
Instrumentation And Control Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Distiguish between the following terms:
   (a) Objects and classes
   (b) Data abstraction and data encapsulation
   (c) Inheritance and polymorphism
   (d) Dynamic binding and message passing. [16]
2. (a) What is the difference between Internet address and InetAddress?
   (b) Explain datagrams. [8+8]
3. Write an application to solve quadratic equation of the form
   $AX^2+BX + C = 0$
   Where the coefficients A,B and C are real numbers. The two real number solutions are derived by the formula
   $X = (-B \pm \sqrt{B^2 - 4AC})/2A$
   For this exercise,you may assume that $A \neq 0$ and the relationship
   $B^2 \geq 4AC$
   holds, so there will be real number solutions for x. Use the standard input and output.
   [16]
4. Explain the following:
   (a) Creating an applet
   (b) Passing parameters to applets
   (c) Adding graphics and colors to applets. [4+4+8]
5. (a) How can you prevent a class from Inheritance?Explain with an example.
   (b) How can you prevent a method from overriding? Explain with an example.
   (c) What is the use of this keyword in java. [6+6+4]
6. Explain the following Thread related exceptions with examples:
   (a) IllegalMonitorStateException
   (b) IllegalThreadStateException. [8+8]
7. (a) How do you scale a drawing object in java? Explain with an example java program.

(b) What is the functionality supported by java related to colours. [8+8]

8. (a) What is a package? How do we design a package?
   (b) How do we add a class or interface to a package? [8+8]

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Code No: R05312203 **R05** **Set No. 3**

III B.Tech I Semester Examinations,December 2011
OOPS THROUGH JAVA
Instrumentation And Control Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) What is the difference between Internet address and InetAddress?
   (b) Explain datagrams. [8+8]
2. Explain the following:
   (a) Creating an applet
   (b) Passing parameters to applets
   (c) Adding graphics and colors to applets. [4+4+8]
3. Explain the following Thread related exceptions with examples:
   (a) IllegalMonitorStateException
   (b) IllegalThreadStateException. [8+8]
4. (a) How do you scale a drawing object in java? Explain with an example java program.
   (b) What is the functionality supported by java related to colours. [8+8]
5. (a) How can you prevent a class from Inheritance?Explain with an example.
   (b) How can you prevent a method from overriding? Explain with an example.
   (c) What is the use of this keyword in java. [6+6+4]
6. Distiguish between the following terms:
   (a) Objects and classes
   (b) Data abstraction and data encapsulation
   (c) Inheritance and polymorphism
   (d) Dynamic binding and message passing. [16]
7. Write an application to solve quadratic equation of the form
   $AX^2+BX+C=0$

   Where the coefficients A,B and C are real numbers. The two real number solutions are derived by the formula
   $X = (-B \pm \sqrt{B^2 - 4AC})/2A$
   For this exercise,you may assume that $A \neq 0$ and the relationship
   $B^2 \geq 4AC$
   holds, so there will be real number solutions for x. Use the standard input and output.

   [16]

8. (a) What is a package? How do we design a package?
   (b) How do we add a class or interface to a package? [8+8]

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