$\mathbf{R05}$ 

### Set No. 2

Max Marks: 80

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

Time: 3 hours

### Answer any FIVE Questions All Questions carry equal marks

\*\*\*\*

- 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? [8+8](b) Explain datagrams. 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  $X=(-B\pm\sqrt{B^2-4AC})/2A$ 



## Set No. 2

For this exercise, you may assume that  $\mathbf{A}\neq \mathbf{0}$  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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 $\mathbf{R05}$ 

### 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 \*\*\*\*\*

- 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.
- 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

 $X = \left(-B \pm \sqrt{B^2 - 4AC}\right)/2A$ 

For this exercise, you may assume that  $\mathbf{A}\neq \mathbf{0}$  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+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. 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]

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## Set No. 4

[8+8]

- 8. Explain the following Thread related exceptions with examples:
  - (a) IllegalMonitorStateException
  - $(b) \ IllegalThreadStateException.$

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## Set No. 1

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

Time: 3 hours

Max Marks: 80

[16]

#### Answer any FIVE Questions All Questions carry equal marks \*\*\*\*

- 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  $\mathbf{A}\neq 0$  and the relationship  $B^2\geq 4AC$ 

holds, so there will be real number solutions for x. Use the standard input and output.

- 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.

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# Set No. 1

- (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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### III B.Tech I Semester Examinations, December 2011 **OOPS THROUGH JAVA**

 $\mathbf{R05}$ 

Instrumentation And Control Engineering

#### Time: 3 hours

### Answer any FIVE Questions All Questions carry equal marks \*\*\*\*\*

1.	(a) (b)	What is the difference between Internet address and InetAddress? Explain datagrams.	[8+8]
2. I	Explain the following:		
	(a) (b) (c)	Creating an applet Passing parameters to applets Adding graphics and colors to applets.	[4+4+8]
3. I	Expl	lain the following Thread related exceptions with examples:	
	(a) (b)	IllegalMonitorStateException IllegalThreadStateException.	[8+8]
4.	(a)	How do you scale a drawing object in java? Explain with an examprogram	nple java
	(b)	What is the functionality supported by java related to colours.	[8+8]
5.	(a) (b) (c)	How can you prevent a class from Inheritance?Explain with an exam How can you prevent a method from overriding? Explain with an ex What is the use of this keyword in java.	nple. cample. [6+6+4]
6. I	Dist	iguish between the following terms:	
	(a) (b) (c) (d)	Objects and classes Data abstraction and data encapsulation Inheritance and polymorphism Dynamic binding and message passing.	[16]
7. V	Writ AX <sup>2</sup>	te an application to solve quadratic equation of the form C + BX + C = 0	
E 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	When are $\alpha$ X = For $\beta$ $B^2 \ge$ hold	ere the coefficients A,B and C are real numbers. The two real numbers derived by the formula $= (-B \pm \sqrt{B^2 - 4AC})/2A$ this exercise, you may assume that A $\neq 0$ and the relationship $\geq 4AC$ is, so there will be real number solutions for x. Use the standard in	solutions
ł	nold Dutp	$\frac{1}{2}$ so there will be real number solutions for x. Use the standard ir out.	ıp

[16]

### Code No: R05312203

Max Marks: 80

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# Set No. 3

- 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]

