

Code No: R05410808

R05**Set No. 2**

IV B.Tech I Semester Examinations, November 2010

OOPS THROUGH JAVACommon to Chemical Engineering, Electronics And Control Engineering,
Electronics And Instrumentation Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Write a program that will read the value of x and evaluate the following function
- $$y = \begin{cases} 1 & \text{for } x > 0 \\ 0 & \text{for } x = 0 \\ -1 & \text{for } x < 0 \end{cases}$$

Using

- (a) nested if statements
- (b) else if statements, and
- (c) Conditional operator. [16]

2. Briefly explain the classes in java.net package. [16]

3. (a) Give the Class hierarchy in Java related to exception handling. Briefly explain each class.

- (b) What is the necessity of exception handling? Explain exception handling taking "divide-by-zero" as an example. [6+10]

4. Write a program to create an interface containing a static inner class. Implement this interface and create an instance of the inner class. [16]

5. (a) What is the difference between the vector Object and array Object?

- (b) What is the difference between a String Object and array of char values?

- (c) Write a program for multiplication of matrices (Test the validity of matrix sizes before performing multiplication). [4+4+8]

6. (a) Define Graphics context. How do you obtain graphics context.

- (b) Explain in brief different drawing functions of Java. [6+10]

7. Create a 3-level inheritance hierarchy. Each class in the hierarchy should have a finalize() method, and it should properly call the base-class version of finalize(). Demonstrate that your hierarchy works properly. [16]

8. Differentiate choice lists and scrolling lists? How will you add them to an applet? Explain with suitable examples. [4+12]

Code No: R05410808

R05**Set No. 4**

IV B.Tech I Semester Examinations, November 2010

OOPS THROUGH JAVA**Common to Chemical Engineering, Electronics And Control Engineering,
Electronics And Instrumentation Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Define Graphics context. How do you obtain graphics context.
(b) Explain in brief different drawing functions of Java. [6+10]
2. (a) Give the Class hierarchy in Java related to exception handling. Briefly explain each class.
(b) What is the necessity of exception handling? Explain exception handling taking "divide-by-zero" as an example. [6+10]
3. Write a program that will read the value of x and evaluate the following function

$$y = \begin{cases} 1 & \text{for } x > 0 \\ 0 & \text{for } x = 0 \\ -1 & \text{for } x < 0 \end{cases}$$
 Using
 (a) nested if statements
 (b) else if statements, and
 (c) Conditional operator. [16]
4. Create a 3-level inheritance hierarchy. Each class in the hierarchy should have a `finalize()` method, and it should properly call the base-class version of `finalize()`. Demonstrate that your hierarchy works properly. [16]
5. Differentiate choice lists and scrolling lists? How will you add them to an applet? Explain with suitable examples. [4+12]
6. Write a program to create an interface containing a static inner class. Implement this interface and create an instance of the inner class. [16]
7. (a) What is the difference between the vector Object and array Object?
(b) What is the difference between a String Object and array of char values?
(c) Write a program for multiplication of matrices (Test the validity of matrix sizes before performing multiplication). [4+4+8]
8. Briefly explain the classes in `java.net` package. [16]

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R05**Set No. 1**

IV B.Tech I Semester Examinations, November 2010

OOPS THROUGH JAVA**Common to Chemical Engineering, Electronics And Control Engineering,
Electronics And Instrumentation Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
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1. (a) Give the Class hierarchy in Java related to exception handling. Briefly explain each class.
(b) What is the necessity of exception handling? Explain exception handling taking "divide-by-zero" as an example. [6+10]
2. Briefly explain the classes in java.net package. [16]
3. Create a 3-level inheritance hierarchy. Each class in the hierarchy should have a finalize() method, and it should properly call the base-class version of finalize(). Demonstrate that your hierarchy works properly. [16]
4. Write a program that will read the value of x and evaluate the following function

$$y = \begin{cases} 1 & \text{for } x > 0 \\ 0 & \text{for } x = 0 \\ -1 & \text{for } x < 0 \end{cases}$$
 Using
 (a) nested if statements
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 (c) Conditional operator. [16]
5. Write a program to create an interface containing a static inner class. Implement this interface and create an instance of the inner class. [16]
6. (a) Define Graphics context. How do you obtain graphics context.
(b) Explain in brief different drawing functions of Java. [6+10]
7. Differentiate choice lists and scrolling lists? How will you add them to an applet? Explain with suitable examples. [4+12]
8. (a) What is the difference between the vector Object and array Object?
(b) What is the difference between a String Object and array of char values?
(c) Write a program for multiplication of matrices (Test the validity of matrix sizes before performing multiplication). [4+4+8]

Code No: R05410808

R05**Set No. 3**

IV B.Tech I Semester Examinations, November 2010

OOPS THROUGH JAVA**Common to Chemical Engineering, Electronics And Control Engineering,
Electronics And Instrumentation Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
All Questions carry equal marks**

1. Create a 3-level inheritance hierarchy. Each class in the hierarchy should have a `finalize()` method, and it should properly call the base-class version of `finalize()`. Demonstrate that your hierarchy works properly. [16]
2. Briefly explain the classes in `java.net` package. [16]
3. Write a program to create an interface containing a static inner class. Implement this interface and create an instance of the inner class. [16]
4. (a) What is the difference between the vector Object and array Object?
(b) What is the difference between a String Object and array of char values?
(c) Write a program for multiplication of matrices (Test the validity of matrix sizes before performing multiplication). [4+4+8]
5. Differentiate choice lists and scrolling lists? How will you add them to an applet? Explain with suitable examples. [4+12]
6. (a) Define Graphics context. How do you obtain graphics context.
(b) Explain in brief different drawing functions of Java. [6+10]
7. Write a program that will read the value of x and evaluate the following function

$$y = \begin{cases} 1 & \text{for } x > 0 \\ 0 & \text{for } x = 0 \\ -1 & \text{for } x < 0 \end{cases}$$
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 (a) nested if statements
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(b) What is the necessity of exception handling? Explain exception handling taking "divide-by-zero" as an example. [6+10]
