**Hall Ticket No: Question Paper Code : R15-10302**

# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

**(AUTONOMOUS)**

II/IV B. Tech - I Semester Supplementary Examinations, May - 2017

**OBJECT ORIENTED PROGRAMMING WITH JAVA**

**(CSE)**

**Time : 3 hours Max Marks : 60**

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|  |  | **Answer ONE question from each unit** |  |  |
|  |  | **All questions carry equal marks** |  |  |
|  |  | **All parts of the question must be answered at one place only** |  |  |

**UNIT-I**

1. A) Briefly describe the concepts message, class, abstraction, encapsulation, inheritance and polymorphism. [6M]

B) write a short notes on class variables and methods. [6M]

**(OR)**

1. (A) What is method overloading? What are the important points which should be taken care of while overloading methods? [6M]

(B) Write a program in Java which reads two complex numbers, finds the sum of these two numbers and prints the real and imaginary part of this sum separately. [6M]

**UNIT-II**

1. What do you understand by dynamic method dispatch? Explain with the help of an example. [12M]

**(OR)**

1. Describe the concept of packages in Java with an example demonstrating how to create classes & interfaces in a package and using them from a class outside the package. [12M]

**UNIT-III**

1. A) What is an exception? Give the class hierarchy of exceptions. [6M]

B)Describe the complete life cycle of thread with a neat block diagram at each stage. [6M]

**(OR)**

Contd……….2

**: 2 :**

1. Compare and contrast between using Thread class and Runnable interface for implementing programs with parallel execution blocks using a suitable example for both versions. [12M]

**UNIT-IV**

1. A)Write a java program which draws a dashed line and dotted line using applet. [6M]

B)Write a java program to draw a polygon of eight edges. [6M]

**(OR)**

1. Compare and Contrast Component & Container classes in Java and describe in detail how they are linked and what differentiates them. Illustrate with example how to create a simple user interface application using Container and Component classes. [12M]

**UNIT-V**

1. Write short notes with code snippets on:

A) Layout Managers [6M]

B) List and Choice boxes [6M]

**(OR)**

10. Describe in detail the following with suitable example.

A) MouseListener Interface [6M]

B) Key Listener Interface [6M]

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