

Shree Damodar College of Commerce & Economics, Margao-Goa
S.Y.B.C.A, Semester - III, End Semester Examination, October 2015

OBJECT ORIENTED CONCEPTS (BCA 301)

Duration: 2 hours

Marks: 50

- Instruction:**
- 1) All questions are compulsory
 - 2) Figures to the right indicate full marks
 - 3) Start each new question on fresh page

- Q1) Justify Your answers with examples to elaborate your view. (5 x 2=10mks)
- a. Is Multiple Inheritance allowed in Java?
 - b. Can an abstract class have a method that is not abstract?
 - c. Is "extends" different from "implements" ?
 - d. Can you prevent a class from being inherited?
 - e. Can you have a try block without a catch clause?

- Q2) Answer The Following : [2mks +3mks+5mks]

- 1) When is the "this" keyword used and why?
- 2) Explain the use of final keyword with variable and method.
- 3) What are the benefits of OOPS?

- Q3) Answer The Following : [2mks + 3mks + 5mks]

- 1) Describe the concept of method overriding, with an example.
- 2) Differentiate between Interface and Abstract class?
- 3) Explain the use of Following
 - a) Constructor
 - b) new
 - c) throw
 - d) inheritance
 - e) super

- Q4) Answer The Following : [2mks+3mks+5mks]

- 1) What are packages in java? Explain any 2 types of packages in java?
- 2) Distinguish between Aggregation and Composition
- 3) Define the following terms
 - a) Polymorphism
 - b) Data Abstraction
 - c) Structured Programming
 - d) protected access specifier
 - e) substring Function

- Q5) Answer The Following : [2mks+3mks+5mks]

- 1) Why is java platform independent?
- 2) Explain the concept of multilevel inheritance with diagram.
- 3) what is Exception ? Explain Exception handling in java?