

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?