

Vidya Vikas Mandal's
Shree Damodar College of Commerce & Economics, Margao-Goa
S.Y.B.C.A, Semester - III, End Semester Examination, **May 2016**
OBJECT ORIENTED CONCEPTS (BCA 301) *(Supplementary)*

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

Q1A) Answer in 1-2 lines.

(5 mks)

1. What is the use of dot operator?
2. How is String different from StringBuffer?
3. What is the use of "import" in java files?
4. How is multiple inheritance achieved in java?
5. What is a class variable?

Q1B) Consider the following `String str = "ProgrammingINJAVA";`

(5 mks)

- i) `str.substring(11)`
- ii) `str.length()`
- iii) `str.charAt(0)`
- iv) `str.toLowerCase()`
- v) `str.indexOf('r')`

Q2) Answer The Following :

[2mks+3mks+5mks]

- 1) When is the "super" keyword used and why?
- 2) Mention three characteristics of constructors.
- 3) What are the benefits of OOPS?

Q3) Answer The Following :

[2mks+3mks+5mks]

- 1) Explain the importance of the 'new' keyword.
- 2) Explain how static binding is different from dynamic binding.
- 3) Differentiate between Interface and Abstract class?

Q4) Answer The Following :

[2mks+3mks+5mks]

- 1) Explain the different types of errors that can occur during execution of program?
- 2) How is method overloading different from operator overloading?
- 3) Define the following terms

- a) Package b) Data hiding
- c) Unstructured Programming
- d) Objects e) Debugging

Q5) Answer The Following :

[2mks+3mks+5mks]

- 1) Explain the use of keyword throws?
- 2) Explain the concept of single level inheritance with diagram.
- 3) What is Exception ? Explain the concept of try and catch block in OOP?