

Vidya Vikas Mandal's
Shree Damodar College of Commerce & Economics, Margao-Goa
SY BCA, Semester-III, Semester End Examination, October 2019
Object Oriented Concepts (BCA301)

Duration: 2 hours**Max. Marks: 50****Instructions**

1. All questions are compulsory
2. Figures to the right indicate marks

- Q1. Answer the following** **(5×2=10)**
- i. Write any two disadvantages of POP.
 - ii. Explain the use of 'super' and 'this' keyword.
 - iii. Differentiate between abstract class v/s interface
 - iv. Write any two benefits of inheritance and polymorphism.
 - v. How will you create an array of Objects in Java. Write any two benefits of creating array of objects.
- Q2. Answer the following** **(10 marks)**
- i. Explain Aggregation in Java **(2)**
 - ii. Differentiate between local variables v/s instance variables **(3)**
 - iii. Explain try, catch, finally block with suitable example of your choice. **(5)**
- Q3. Answer the following** **(10 marks)**
- i. Briefly explain any four methods available in Reader class in Java. **(2)**
 - ii. Write a note on operator overloading. **(3)**
 - iii. Write a suitable program of your choice to demonstrate function templates. **(5)**
- Q4. Answer the following** **(10 marks)**
- i. Explain public and protected access specifiers in Java **(2)**
 - ii. Differentiate between method overloading v/s Constructor overloading **(3)**
 - iii. Explain multilevel inheritance with suitable example of your choice. **(5)**
- Q5. Answer the following** **(10 marks)**
- i. Identify any four objects for the given system. **(2)**
 "The airline reservation system is a web-based booking solution that helps in consolidating data from all airlines through the use of global distribution systems. The system provides inventory and rates in real time to customers as well as travel agents."
 - ii. Explain the following statement in Java **(3)**
`public static void main(String args[])`
 - iii. Write a program to create a class Account having data member as Acc_no, Name and balance. Accept and display data for one object. **(5)**