## Goa Vidyaprasarak Mandal's **GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS FARMAGUDI, PONDA - GOA** B.C.A. CBCS (SEMESTER - III) EXAMINATION, NOVEMBER 2022 **OBJECT ORIENTED CONCEPTS**

**Duration:** 2 hours

**Instructions**:*i*)*All questions are compulsory. ii)* Figures to the right indicate full marks.

Q.1. A) Fill in the Blanks:

a) diagrams are good at describing the behaviour of an object across several use cases.

b)When an object completes its life-cycle the deletes that object and releases the memory occupied by it.

c) represents the IS-A relationship.

d)Java uses the model of exception handling.

e)The code within the block is always executed regardless of whether an exception has occurred or not.

B) Define the following term	s:
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a) Class

b)Object

c) Constructor

d) Run Time Errors

e)Exception Handling

Q.2. Answer the following:

B) Write a short note on UML.

C) Define OOP	. Explain in br	ef the paradigms of OOP.	(05)
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Q.3. Answer the following:

A)What is an Object Diagram? State the elements of Object Diagrams.	(02)
B)With the help of an example, explain Activity Diagrams.	(03)
C) Draw a class diagram forBanking System. Explain in brief the several	
components from the diagram.	(05)

(5x1=05)

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(03)

Total Marks: 60

Q.4. Answer the following:

A) State the ways to overload the method in java. Can we overload java main() method?

Justify.

(02)

B).State the two rules to define Constructor. What are the different types of Constructors in Java? (03)

C)Draw a Use Case diagram for Help Desk System. Explain in detail the several components from the diagram. (05)

Q.5. Answer the following:

A)Differentiate between Method Overloading and Method Overriding. (02)
B)Explain the similarities and differences between an Interface and a class. (03)
C)Draw a Sequence diagram for User Login. Explain in detail the several components from the diagram. (05)

Q.6. Answer the following:

A)Explain in brief the four types of Java access modifiers.	(02)
B) Write a Java program to implement Single Try and Multiple Catch.	(03)

C)Write a java program to implement Multilevel Inheritance. (05)

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