**St. Joseph’s College (Autonomous), Bangalore**

**VI Semester Examination, April 2018**

**B C A**

**CA 6212 : Object Oriented Systems Design**

(For supplementary candidates)

Do not write the register number on the question paper

Please attach the question paper along with the answer script.

**Time 3Hrs Max Marks 100**

**This paper contains 1 printed page and 3 parts**

**PART-A**

**Answer all TEN questions 3 x10 = 30**

1. What are public, private and protected protocols?
2. List out the object oriented corollaries statement.
3. Explain the advantages of object oriented development.
4. Define 1) Inheritance 2)data abstraction 3)protocol
5. Define 1) software validation 2) software verification 3) software correctness
6. Write down the steps involved in macro development process.
7. Explain UML collaboration diagram.
8. List of the steps of OOA process.
9. Describe top down and bottom up strategies, which do you prefer and why?
10. What is 80-20 rule?

**PART-B**

**Answer any FIVE questions 8 x5 = 40**

1. Write a note on payroll program.
2. Explain Jacobson ET AL methodologies.
3. Explain briefly about UML class diagram.
4. Explain developing Effective documentation.
5. Explain the different types of testing strategies.
6. Write a note on Corollary 1 ( Uncoupled design with less information)
7. Write a note on 1) Refining attribute 2) super sub class Relationships?

**PART-C**

**Answer any THREE questions 10 x3 = 30**

1. Explain 14 UML specifications in detail.
2. Explain 1) Designing with inheritance. 2) Data base management system.
3. Write a note on object oriented system development life cycle.
4. Explain case study: Relationship analysis for the VIA net bank ATM system.
5. Write a note on 1) object Relational system 2) Business process model.