 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION - **COMPUTER SC.**

FIRST SEMESTER – **NOVEMBER 2012**

# CS 1817 - OBJECT ORIENTED SOFTWARE ENGINEERING

Date : 05/11/2012 Dept. No. Max. : 100 Marks

Time : 1:00 - 4:00

**SECTION A**

**Answer All the questions: (10 X 2 = 20)**

1. Write down the constituents of rational enterprise philosophy.
2. What are service packages in OOSE?
3. Write down the architecture layers of Object oriented software engineering.
4. Draw the state transition graph notation for i) send message ii) destroy object
5. Write down the steps for finding usecases.
6. Define the terms *assembly* and *container.*
7. Write down any four phases of maturity levels.
8. What are process- related metrics?
9. Write any four abstract usecases.
10. Define object oriented modelling technique.

**SECTION B**

**Answer All the questions: (5 X 8= 40)**

1. a) Explain computer aided systems engineering.

OR

b) Explain system development as part of an enterprise

1. a) Explain requirement model in systems development.

OR

b) How requirements model is structured in analysis model?

1. a) Explain object oriented analysis process in the unified approach.

OR

b) Write down the guidelines for developing effective documentation.

1. a) Explain the process of education and training in OOSE.

OR

b) Write down the factors influences the software quality.

1. a)Explain the tasks in call handling , operation and maintenance in telecom switching services.

OR

b) Explain Implementation model through state transition diagrams

**SECTION C**

**Answer any TWO of the following questions: (2 X 20 = 40)**

1. i) Explain Inheritance in object oriented programming with an example in detail.

ii) Explain model building in system development.

1. i) Explain Usecase Model with proper examples.

ii) Explain risk analysis and risk management in OOSE.

1. i) Construct requirements model for telecom switching services.

ii) Explain the features of object DBMS and compare with DBMS.

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