LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

FIRST SEMESTER – NOVEMBER 2016

16PCS1MC06 - OBJECT ORIENTED SOFTWARE ENGINEERING

Date: 14-11-2016   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART-A

Answer ALL the questions   10*2=20

1) Write down the OMT models.

2) Answer the following

   a. The heart of Jacobson's methodology is use case. (True / False)

   b. _____ UML diagram depicts the static structure of the system being developed.

3) State the steps in Object Oriented Analysis.

4) Define the major properties of a-part-of relationship.

5) Define axiom.

6) Differentiate coupling and cohesion.

7) What are the activities of micro level user interface design?

8) How to specify error messages in dialog boxes?

9) Differentiate testing and debugging with an example.

10) Name the kinds of reviews.

PART-B

Answer ALL the questions   5*8=40

11) a) Elucidate Jacobson's methodology.

                    (or)

   b) Explain the types of use case relationships with suitable diagram.

12) a) Elucidate the super-sub structure type of object relationship.

                    (or)

   b) Explain noun phrase approach in identifying classes while developing software.

13) a) Explain the design corollaries.

                    (or)

   b) Describe mapping capabilities of relational data to and from application objects.

14) a) Explain the process of designing view layer classes

                    (or)

   b) Describe user interface prototyping.

15) a) Explain the ways to increase reliability of software.

<div align="center">(or)</div>

b) Explain risk analysis.

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PART-C

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Answer any TWO questions. 2*20=40

16) a) Illustrate e-commerce transactions using UML diagrams. **(15)**

b) Elucidate common class approach to identify classes **(5)**

17) a) Give an explanation on designing access layer classes **(10)**

b) Explain the purpose of view layer interface. **(10)**

18) Explain the following

a) Types of testing with diagram **(10)**

b) Software metrics **(10)**

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