

P597

[4064] - 587

B.E. (Computer Engineering)

OBJECT ORIENTED MODELING AND DESIGN

(2008 Course) (410443) (Sem. - I)

Time : 3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) Figures to the right indicate full marks.
- 2) Answers to the two sections should be written in separate answer books.
- 3) From section I, answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6
- 4) From section II, answer Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12.
- 5) In design questions you are encouraged to make further suitable assumptions on scope of the systems given wherever felt necessary and do state your important assumptions if any.
- 6) All diagrams/concepts are expected in UML2.0 except stated otherwise explicitly.

SECTION - I

Q1) Write briefly on the following [18]

- a) What are flowcharts, what do they MODEL. Which diagram in UML 2 replaces or matches flowcharts?
- b) What do you understand by encapsulation property of object oriented systems? How does one implement this property in C++.
- c) Consider a bank's savings account class. For this class write an OCL statement to indicate that the minimum account balance should be maintained at 10000 rupees.
- d) How did Booch, Rumbaugh and Jacobson contribute to UML. Which diagrams changed most from UML 1.4 to UML 2.
- e) Why model using UML?
- f) Draw a neatly labeled 4 + 1 architecture diagram.

OR



P.T.O.

