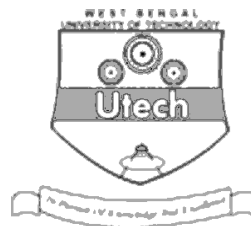


CS/M.Tech (CSE)/SEM-2/MCS-205A/09
OBJECT ORIENTED INFORMATION SYSTEM DESIGN (SEMESTER - 2)



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the
Candidate

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CS/M.Tech (CSE)/SEM-2/MCS-205A/09
ENGINEERING & MANAGEMENT EXAMINATIONS, JULY - 2009
OBJECT ORIENTED INFORMATION SYSTEM DESIGN (SEMESTER - 2)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. You have to answer the questions in the space provided marked 'Answer Sheet'. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification.**
9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

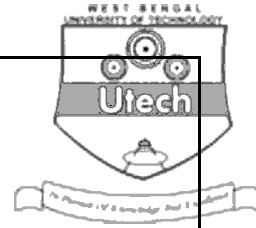
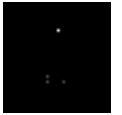
FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

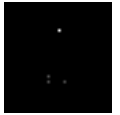
Question Number												Total Marks	Examiner's Signature
Marks Obtained													

.....
Head-Examiner / Co-Ordinator / Scrutineer

38011 (08/07)



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CS-205A/09
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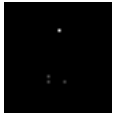
[Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

$$5 \times 14 = 70$$

- | | | | |
|----|----|--|-------|
| 1. | a) | What do you mean by behavioural modeling diagram ? Name a few. | 2 + 2 |
| | b) | What are the primary goals of UML ? | 6 |
| | c) | Differentiate between Aggregation and Composition. | 4 |
| 2. | a) | How state diagram is useful in data modeling ? | 4 |
| | b) | Develop use case diagram for the below case : | 10 |
| | | Pin verification and customer transaction support for a bank ATM. | |
| 3. | a) | What do you mean by Abstract Data Type ? | 4 |
| | b) | Describe several kinds of relationships w.r.t. OOAD. | 4 |
| | c) | Differentiate between static and dynamic binding with appropriate example. | 6 |
| 4. | a) | Why do we use activity diagrams ? | 4 |
| | b) | Develop sequence diagram for the below case : | 10 |

38011 (08/07)



5. a) How timing diagram is useful ? 4
- b) Develop state diagram for the below case : 10
- Emergency patient admission and treatment arrangement for any hospital.
6. a) Why do we use deployment diagram ? 4
- b) Develop component diagram for the below case : 10
- Employee training requirement collection, development and delivery for any hospital.
7. a) What do you mean by collaboration diagram ? Why we require it ? 4
- b) Develop class diagram for the below case : 10
- Order processing for any firm.
8. a) How object diagram is necessary ? 4
- b) Develop activity diagram for the below case : 10
- Internal requirement collection and employee recruitment in a farm through HR.

END