Enrollment No:_

C.U.SHAH UNIVERSITY

WADHWAN CITY

University (Winter) Examination -2013

Course Name: M.Tech(Engineering-CE) Sem-I Subject : Object Oriented Methodology& Implementation

Marks : 70

Duration :- 2:30 Hours

Date : 06/01/2014

Instruction

(1) Attempt all Questions of both sections in same answer book / Supplementary.

(2) Use of Programmable calculator & any other electronic instrument is prohibited.

(3) Instructions written on main answer Book are strictly to be obeyed.

(4)Draw neat diagrams & figures (If necessary) at right places.

(5) Assume suitable & Perfect data if needed

SECTION-I

Q-1 a) b) c) d)	Explain the following terms with respect to object oriented design. Cohesion Coupling Modifiability and testability Modular design	2 2 2 1
Q-2	Answer the following	_
a)	Explain with example: "Mistakes made in the requirements analysis stage are the costliest to correct"	5
b)	What is the purpose of deciding the major subsystem? Consider any system	5
c)	and give example of its subsystem Explain the characteristics of objects	4
	OR	
Q-2		
2 <u>-</u> a)	How to compare the equality of objects? Explain it.	5
b)	Explain the object modeling technique in brief.	5
c)	Explain aggregation and association with example	4
Q-3	Answer the following	
a)	Define the term "Design Pattern". Explain Iterator design pattern	7
	with suitable example.	_
b)	Draw a Sequence diagram for registering a new member in library	7
	management system and also draw a Sequence diagram	
	for adding new books in library system.	
	OR	
Q-3	Answer the following	
a)	What are the reasons of evolving the Object Oriented Methodology in	7
,	programming? Explain with real world example.	
b)	Which design pattern is used to ensure that only one object of	7
	particular class can exist in application? Explain with proper	

example







SECTION-II

Q-4 a)	Answer the following Explain in brief: Class Diagram	2
b)	Explain the limitations of Inheritance	2
c)	What is the importance of knowledge of domain in analysis?	2
d)	Explain: Definitional Rules	1
Q-5	Answer the following	
a)	What is RTTI? Explain with example	5
b)	What questions should be answered during designing process?	5
c)	Explain with example Explain exception handling with appropriate example.	4
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	OR	
Q-5	Answer the following	
a)	When are the dynamic models helpful? Give an example and explain.	5
b)	Explain client server architecture system	5
c)	Write a short note: Multiple Inheritance	4
	A A BHAR	
Q-6	Answer the following	
a)	Write a short note on "Pattern-Based Solutions"	7
b)	Which are the approaches to work with distributed objects? Explain RMI	7
	with example.	
	OR	
Q-6	Answer the following	
-)	White a material MVC anality stand	7

a)	write a note on MVC architecture.	/
b)	Explain the three activities during analysis process with importance.	7

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