

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MBA – SEMESTER 3– • EXAMINATION – WINTER 2015**

**Subject Code:2830402**
**Date: 05/12/2015**
**Subject Name: System Analysis and Design**
**Time: 10.30 AM TO 01.30 PM**
**Total Marks: 70**
**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q. No.	Question Text and Option				6
<b>Q.1 (a)</b>	In motor car manufacturing the following type of information is tactical				
1.	A.	Decision on introducing a new model	B.	Scheduling production	
	C.	Assessing competitor car	D.	Computing sales tax collected	
2.	The role of a system analyst drawing up a requirements specification is similar to				
	A.	architect designing a building	B.	a structural engineer designing a building	
	C.	a contractor constructing a building	D.	the workers who construct a building	
3.	A computer-based information system				
	A.	may require some tasks to be done manually	B.	should not have any manual tasks	
	C.	is always fully automated	D.	may use only computers	
4.	By metadata we mean				
	A.	very large data	B.	data about data	
	C.	data dictionary	D.	meaningful data	
5.	Errors occur more often when				
	A.	data is entered by users	B.	data is entered by operators	
	C.	when data is handwritten by users and entered by an operator	D.	the key board design is bad	
6.	Computer systems are designed by				
	A.	simplifying requirements of system	B.	breaking of the system into smaller self-contained co-operating subsystems	
	C.	breaking up the systems into independent parts	D.	Modular design	
<b>Q.1</b>	<b>(b)</b>	1. Rapid Application Development 2. Nominal Group Techniques 3. Enterprise Data Warehouse 4. Maintainability			<b>04</b>
<b>Q.1</b>	<b>(c)</b>	Distinguish between Open and Close System.			<b>04</b>

Q.2	(a)	Describe all the sources of Software. Explain any two in detail.	07
	(b)	Explain Corporate and Information System Planning	07
		<b>OR</b>	
	(b)	How to design a relational database model to find out relation between any faculty's performance and their attendance.	07
Q.3	(a)	Explain seven different type of software application test in brief.	07
	(b)	Define the points to be consider while assessing the feasibility of the project. Explain any three.	07
		<b>OR</b>	
Q.3	(a)	What do you understand by Installation? List out all strategies for installation and explain any two in detail.	07
	(b)	Explain the process of identifying and selecting IS development projects	07
Q.4	(a)	Explain any three traditional methods to determine system requirements.	07
	(b)	Describe the procedure to design a distributed system.	07
		<b>OR</b>	
Q.4	(a)	Briefly explain Agile methodologies for finalizing design specifications of the system.	07
	(b)	What is Data Warehousing? Explain Two-tier and Three-tier data warehouse architecture with example.	07
Q.5		Design a record keeping system for Hospital to keep record of patient. Clearly mention the fields required to collect the information.	14
		<b>OR</b>	
Q.5		Develop an Information system for Logistics company by keeping in mind all the factors of software development life cycle.	14

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