	Seat	Enrolment No	
	a .	GUJARAT TECHNOLOGICAL UNIVERSITY MBA - SEMESTER-III • EXAMINATION – WINTER • 2014	
		Dject Code: 2830402 Date: 08-12-2014	
		oject Name: System Analysis and Design (SA&D)	
		ne: 10:30 am - 01:30 pm Total Marks: 70	
	Inst	 Attempt all questions. Attempt all questions wherever necessary. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Describe System Analysis and the major activities that occur during this phase of the System Development Life Cycle.	07
	(b)	Explain when to use different types of file organizations to store computer files.	07
Q.2	(a)	Draw context diagram and leve-0 Data Flow Diagram for the Order Processing System.	07
	(b)	Explain in detail the following terms:	07
		 Decomposition Coupling 	
		3. Cohesion	
	(b)	Describe different types of data errors? Explain the various techniques used by the Systems Designers to detect data errors before saving or transmission.	07
Q.3	(a)	Explain what is meant by Critical Path Scheduling? Describe the process of creating	07
	(b)	Gantt charts and network diagram with an example. Contrast the following set of terms:	07
	(U)	i. Encapsulation & Polymorphism	07
		ii. Static binding & Dynamic binding	
Q.3	(a)	Describe the structured walkthrough process. What roles need to be performed during a walkthrough?	07
	(b)	Describe five approaches to system testing	07
Q.4	(a)	Draw E-R Diagram about Team, Players and their Fans including the following information:	07
		1. For each team: its name, its players, its team captain (one of its players) and the colour of its uniform.	
		 For each players: his / her name For each fan: his / her name, favorite teams, favorite players, and favorite 	
		colours.	
	(b)	What is Data-flow diagram? How data-flow diagrams can be used as an analysis tools.	07
Q.4	(a)	Distinguish between unary, binary, and ternary relationships and give an example of each.	07
0.4	(b)	Explain the use of models, prototypes, and CASE tools in the systems development	07

Q. (b) Explain the use of models, prototypes, and CASE tools in the systems process. Also explain the pros and cons of agile development methods.

- Q.5 (a) Describe the process of coding, testing, and converting an organizational information 07 system and outline the deliverables and outcomes of the process.
 - (b) Describe six different sources of software

- 07
- Q.5 (a) What are different types of relationship employed in a use-case diagram and what is 07 their purpose.
 - (b) Explain the process of designing forms and reports, and the deliverables for their 07 creation.
