Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MBA – SEMESTER 03 – • EXAMINATION – SUMMER 2017

Subject Code: 2830402 **Date: 11/05/2017**

Subject Name: System Analysis and Design(SA&D)

Time: 02.30 PM TO 05.30 PM **Total Marks: 70**

Instructions:

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

Q.1 (a) Multiple Choice Questions 6

1. _____ manage the system development, assign staff, manage the budget and reporting, and ensure that deadlines are met.

   A. Project managers B. Graphics Engineer
   C. Network Engineers. D. System analyst

2. Debugging is:

   A. Creating program code. B. Identifying the task to be computerized.
   C. finding and correcting errors in the program code D creating the algorithm

3. Translating the algorithm into a programming language occurs at the _____ step of the PDLC.

   A. Debugging B. Coding
   C. Testing and Documentation D. Algorithm Development

4. The problem statement includes the _____, which lists specific input numbers a program would typically expect the user to enter and precise output values that a perfect program would return for those input values.

   A. testing plan B. error handler
   C. IPO cycle D. input-output specification

5. _____ is the process of translating a task into a series of commands that a computer will use to perform that task.

   A. Project design B. Installation
   C. Systems analysis. D. Programming

6. Technical writers generally provide the _____ for the new system.

   A. programs B. Network
   C. Analysis D. Documentation

Q.1 (b) 04

1. Distributed System
2. Enterprise data warehousing
3. Rapid Application Development
4. Quality Assurance

Q.1 (c) Explain the difference between Encapsulation & Polymorphism 04

Q.2	(a)	Distinguish between unary, binary, and ternary relationships and give an example of each	07
	(b)	What is Data-flow diagram? How data-flow diagrams can be used as an analysis tools	07
		OR	
	(b)	Explain the difference between a functional and non-functional requirement. Identify three types of non-functional requirement	07
Q.3	(a)	What do you mean by feasibility study and what are its considerations	07
	(b)	What is the degree of relationship? Give an example of each of the relationships degrees	07
		OR	
Q.3	(a)	Explain different type of files with suitable example in brief	07
	(b)	Discuss the role of Input and output design in system design	07
Q.4	(a)	"A data dictionary is a structured repository of data about data". Discuss	07
	(b)	Explain the use of models, prototypes, and CASE tools in the systems development process. Also explain the pros and cons of agile development methods	07
		OR	
Q.4	(a)	Explain the process of identifying and selecting IS development projects	07
	(b)	Explain seven different type of software application test in brief.	07
Q.5	(a)	Draw a context and Level-1 data flow diagram for the Fast Food Information System	14
		OR	
Q.5	(b)	Design a record keeping system for Higher Secondary school to keep record of Students. Clearly mention the fields required to collect the information. .	14

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