SARDAR PATEL UNIVERSITY MCA I Semester Examinations, 2018 PS01CMCA24: Systems Analysis and Design

	Date: 2	27/11/2018 Time: 10:00 am to 1:00 pm Marks: 70
Q-1	Sel 1.	ect the most appropriate answer for the following questions. [08]
	,;.	(a) Campus (b) Deadline (c) Geographical area (d) None of these
	2.	Systems analysis deals with what are the of existing system. (a) Users (b) Problems and limitations (c) Requirements (d) All of these
	3.	feasibility test deals with cost-benefit aspects of a system. (a) Economical (b) Operational (c) Technical (d) Organizational
·	4.	is a tool for requirements investigation. (a) Interview (b) Questionnaire (c) Observation (d) All of these
	5.	•• · · · · · · · · · · · · · · ·
		(a) Prototype (b) CASE based (c) SDLC (d) None of these
	6.	To show flow of data between systems entities diagrams are used.
$T^{P^{\alpha}}$		(a) Data flow(b) Function Decomposition(c) Flow chart(d) None of these
N.,	7.	
4 1	* * * * * * * * * * * * * * * * * * *	(a) User(b) Developer(c) Data Dictionary(d) None of these
	8.	is not a tool for requirements documentation. (a) Structured English (b) Decision tree (c) Unit testing (d) All of these

)-2	Answer the following questions in brief (ANY SEVEN). 1. List duties of systems analyst in firms of various sizes. 2. Define an MIS. 3. List four committees of information system development and management. 4. List two types of feedback from an information system. 5. Give structure of data dictionary. 6. Give a major difference between physical DFD and logical DFD. 7. Explain two limitations of a typical CASE tool. 8. What is artificial test data? 9. List any two software quality parameters.	[14]	
2-3[A]	Draw general diagram of system with labels. Explain its components in detail.		
[B]	Consider following situation of a typical glossary shop.		
	Early bird discount		
	Draw a decision tree based on the situation described above.		
[B]	OR Draw general structure of decision table. Also give one example of decision table of your choice.	[06]	
2-4[A] [B]	Explain SDLC approach to develop system in detail. Draw an FDD, context level DFD and next level DFD for managing inventory of online mobile store.		
[B]	Define DFD and FDD. Draw four symbols of DFD with proper labels. Also lists characteristics of physical DFDs.	[06]	
2-5[A]	Explain the steps of prototype by giving its diagram. Also explain its uses.	[06]	
[B]	Draw the structure of a typical CASE tool. Explain its components in detail.	[06]	
[B]	What is importance of a data dictionary? Explain in detail.	[06]	
2-6[A]	List three types of maintenance of information system. Explain each in brief.	[06]	
[B]	Describe concept of front end and back end tools by taking suitable examples of each.	[06]	
[B]	OR Explain various training methods to train various users of the system. XXXX	[06]	