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### SARDAR PATEL UNIVERSITY

# BCA Semester-III (CBCS)(Reg.) Examination [US03CBCA27]: System Analysis & Design Thyosday, 16th June -- 2022

r	Time: \$200pm to \$2.00pm	Total Marks: 70
Note:	Figure indicates at right is maximum n	narks for question.
Q -1 1.	Select an appropriate option for The relationships that exist among	the following statements. [10] gethe components and define the boundary between a system
	and its environment are called [a] System [c] Sub system	[b] Black box [d] Structure
2.	[a] Output [c] Input	he transformation of input to output is called  [b] Goal  [d] Process
3.	[a] Natural [c] Open	nteract with its environment [b] Closed [d] Physical
4.	To conduct a detailed feasibility so committee is appointed.  [a] Steering  [c] Evaluation	tudy, firstly an expert committee called  [b] Super  [d] None of these
5.		output of the Structure Analysis.  [b] New System  [d] Test Plan
6.	One of the examples of one-time [a] Salary [c] Equipment Maintenance	<ul><li>[b] Construction</li><li>[d] Supply</li></ul>
7.	[a] Interviewing [c] Record inspection	ect information from an individuals or from groups.  [b] Questionnaires  [d] Data Input
8.	Arranging the data into some designate [a] Data Recording	[b] Verification
9.	<ul><li>[c] Sorting</li><li>The process represented by a circ</li><li>[a] Bubble</li></ul>	[d] Data Transmission le is also known as [b] Bullets
10.	[a] Prototype	[d] Nodes seful when totally novel system is proposed.  [b] Flow chart
	[c] DFDs	[d] Procedure

Fill in the blanks.	,	
	as the result of an operation.	
2. The last step of SDLC		
3. "Limit Check" is	type of validation check.	
4. Symbol is used		

#### State whether below given statement is True or False.

- 5. Closed system is self-contained.
- 6. Programming is the process of writing the instructions to be read and executed by a computer.
- 7. Observation can look for operational inefficiencies.
- 8. Completion of the Prototyping Process signals the beginning of the next activity.

#### Q-3 Answer the Following Questions in brief (Attempt any Ten)

[20]

- 1. What is System? Give example of the system.
- 2. List elements of system.
- 3. What is System Analysis?
- 4. What is problem identification? Explain its merits in SDLC.
- 5. List Tangible and Intangible benefits.
- 6. List tools used by Structured Analysis other than DFDs
- 7. Write basic steps for process of Data Capture.
- 8. List types of Output media.
- 9. Write any four points which Interviewer has to remember for conducting an Interview.
- 10. Draw and define the symbols used in DFDs.
- **11.** What is Prototype?
- 12. Draw the Context level diagram for College Payroll System

#### Q-4 Write answer in detail for the following questions (Attempt any Four)

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- 1. Discuss types of systems with examples in detail
- 2. Who is System Analyst? Discuss role of System Analyst.
- 3. What is SDLC? Explain System Analysis considering SDLC.
- 4. What is SSADM? List different methodology of SSADM and explain any three of them.
- 5. What is Output? Discuss objectives of an Output with its Design Principles and types in detail.
- 6. List categories of Fact Gathering Techniques and discuss <u>any two</u> of them in detail with its merits and demerits.
- 7. What is DFDs? Explain merits and demerits of DFDs and discuss rules for constructing DFDs.
- 8. Draw Prototype Development Model and discuss steps of Prototype Process in detail.