

[60]A-7J

## SARDAR PATEL UNIVERSITY

BCA Semester-III (CBCS)(Reg.) Examination – January -2021

US03CBCA27 : System Analysis &amp; Design

Monday, 4<sup>th</sup> January -2021

Time: 02.00 pm to 04.00pm

Max. Marks : 70

Note: Figure indicates at right is maximum marks for question.

Q-1 Select an appropriate option for the following statements.

[10]

1. The procedure for computerizing outside problem is made more complex by a large area which can be called \_\_\_\_\_.  
[a] Para Computing [b] System  
[c] System implementation [d] System Study
2. The activity that makes possible the transformation of input to output is called \_\_\_\_\_.  
[a] Output [b] Goal  
[c] Input [d] Process
3. \_\_\_\_\_ system is a self contained.  
[a] Conceptual [b] Closed  
[c] Open [d] Physical
4. To conduct a detailed feasibility study, firstly an expert committee called \_\_\_\_\_ committee is appointed.  
[a] Steering [b] Super  
[c] Evaluation [d] None of these
5. Structured Analysis does not use \_\_\_\_\_.  
[a] Data Dictionary [b] Structured Diagram  
[c] E-R Diagram [d] Decision Tree
6. One of the example of recurring cost is \_\_\_\_\_.  
[a] Salary [b] Feasibility study cost  
[c] Construction [d] Remodelling of computer room
7. \_\_\_\_\_ technique is useful for collect numerical data.  
[a] Interviewing [b] Questionnaires  
[c] Record inspection [d] Data Input
8. Arranging the data into some desired sequence is known as \_\_\_\_\_.  
[a] Data Recording [b] Verification  
[c] Sorting [d] Data Transmission
9. Generally, Context level DFD contain \_\_\_\_\_ process.  
[a] One [b] Two  
[c] Three [d] Four
10. From the following, \_\_\_\_\_ useful when totally novel system is proposed.  
[a] Prototype [b] Flow chart  
[c] DFDs [d] Procedure

[13]

**Q-2 Do as Directed.**

[08]

**Fill in the blanks.**

1. \_\_\_\_\_ is defined as the result of an operation.
2. The last step of SDLC is \_\_\_\_\_.
3. The processed data with specific purpose are called \_\_\_\_\_.
4. DFD stands for \_\_\_\_\_.

**State whether below given statement is true or false.**

5. Solar system is an example of natural system
6. Better company image is one of the examples of an intangible benefits.
7. Data Input is not a fact-finding technique.
8.  is a symbol of external entities.

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

[20]

1. What is System? Give example of the system.
2. List characteristics of system.
3. What is probabilistic system? Write with example.
4. What is economic feasibility?
5. What is SSADM?
6. List tools used by Structured Analysis other than DFDs
7. Define: [1] Data Capture [2] Data Entry.
8. Write objectives of Output.
9. What are the general rules for conducting an Interview?
10. Draw and define the symbols used in DFDs.
11. List the situations when Prototype is useful.
12. Draw the Context level diagram for Railway Reservation system

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

[32]

1. Discuss types of systems in detail.
2. Who is System Analyst? Discuss role of System Analyst.
3. Write a short note on System Analysis considering SDLC
4. List different methodology of SSADM. 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 any two of them in detail with its merits and demerits.
7. What is DFDs? Discuss use, merits and demerits of DFDs in detail.
8. Draw Prototype Development Model and discuss steps of Prototype Process in detail.

[2]