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Seat No : \_\_\_\_\_

No. of Printed Pages : 2

**SARDAR PATEL UNIVERSITY**  
**B.C.A. - III<sup>rd</sup> SEMESTER (CBCS) (REG.) EXAMINATION 2019**  
**Friday, 22<sup>nd</sup> November**  
**02.00 PM to 05.00 PM**  
**US03BCA27 : System Analysis and Design**

Maximum Marks: 70

**Q:1 Multiple choice questions.**

**[10]**

1. Economic forecasting is an example of \_\_\_\_\_ system.  
a) Probabilistic      b) Deterministic      c) machine      d) closed
2. \_\_\_\_\_ is defined as the result of an operation.  
a) output      b) goal      c) input      d) process
3. One of the examples of Onetime cost is \_\_\_\_\_.  
a) Salary      b) construction      c) Equipment maintenance      d) Supply
4. \_\_\_\_\_ is the process of writing the instructions to be read and executed by a computer.  
a) Testing      b) programming      c) conversion      d) Documentation
5. In \_\_\_\_\_ maintenance errors or bugs are rectified.  
a) Adaptive      b) Corrective      c) Perfective      d) None
6. The processed data with specific purpose are called \_\_\_\_\_.  
a) Data      b) Information      c) Picture      d) System
7. \_\_\_\_\_ is the process of translating the source document in a machine readable form.  
a) Data collection      b) Data validation      c) Data verification      d) DataEntry
8. \_\_\_\_\_ is the process to detect error.  
a) Data Capture      b) Computer Input      c) DataValidation      d) Data preparation
9. The process represented by a circle is also known as \_\_\_\_\_.  
a) Bubble      b) Bullets      c) List      d) Nodes
10. Generally Context level DFD contain \_\_\_\_\_ process.  
a) One      b) Two      c) Three      d) Four

**Q:2 Write down the answer of following short questions. (Any Ten)**

**[20]**

1. Differentiate between open system and closed system.
2. What is System? Give example of the system.
3. Draw the General model of the system.
4. Discuss technical feasibility.
5. List Tangible and Intangible Benefits.

**[P.T.O]**

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6. List advantages of SSADM.
7. When Questionnaires are useful?
8. List types of Output.
9. Discuss objectives of Data Capture.
10. Draw the Context level diagram for Hostel Management System.
11. Briefly mention the demerits of Prototypes.
12. Mention the steps of Prototype Development Model.

**Q:3**

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|-----------|--|-------------|
| <b>A.</b> | Write a detail note on Role of System Analyst.           | <b>[06]</b> |
| <b>B.</b> | Explain the elements of system.                          | <b>[04]</b> |
| <b>OR</b> |  |             |
| <b>A.</b> | Discuss the characteristics of system in detail.         | <b>[06]</b> |
| <b>B.</b> | Differentiate between System Analysis and System Design. | <b>[04]</b> |

**Q:4**

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|-----------|---|-------------|
|           | Write a short note on System Analysis considering SDLC. | <b>[10]</b> |
| <b>OR</b> |   |             |
|           | Write a short note on System Design considering SDLC.   | <b>[10]</b> |

**Q:5**

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|-----------|---|-------------|
| <b>A.</b> | Write a note on Field Checks Validations.       | <b>[06]</b> |
| <b>B.</b> | Write a note on Observation Techniques.         | <b>[04]</b> |
| <b>OR</b> |   |             |
| <b>A.</b> | Write a note on Transaction Checks Validations. | <b>[06]</b> |
| <b>B.</b> | Write a note on Interview Techniques.           | <b>[04]</b> |

**Q:6**

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|-----------|--|-------------|
| <b>A.</b> | Discuss Use, merits and demerits of DFDs.  | <b>[06]</b> |
| <b>B.</b> | What is Prototype? Discuss need for Prototyping.   | <b>[04]</b> |
| <b>OR</b> |  |             |
| <b>A.</b> | Draw and discuss Symbols used in DFDs and explain thumb rules used to constructing DFDs. | <b>[06]</b> |
| <b>B.</b> | Differentiate between Physical DFDs and Logical DFDs.                                    | <b>[04]</b> |

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