SARDAR PATEL UNIVERSITY
B.C.A. Semester-2 Examination, 2016
US02CBCA02 : Systems Analysis and Design
Wednesday, 4th May, 2016.

Time : 2.30 p.m. – 5.30 p.m.   Marks: 70

Q-1   Select the appropriate option for following questions: 10

1   _____ system is an example of Natural system.

   a) solar   b) information   c) business   d) defense

2   _____ is defined as the startup component on which the system operates.
   a) output   b) goal   c) input   d) process

3   Better Company Image is one of the example of _____
   a) One time cost   b) Recurring Cost
   c) Tangible Benefits   d) Intangible Benefits

4   Test Specification is the part of _____.
   a) System Survey   b) Structured Analysis
   c) Structured Design   d) Maintenance

5   _____ is the process to detect error.
   a) Data Capture   b) Computer Input   c) Data Validation   d) Data preparation

6   The processed data with specific purpose are called _____.
   a) Data   b) Information   c) Picture   d) System

7   DFD stands for _____
   a) Data Flow Diagram   c) Data Flow Design
   b) Database Flow Diagram   d) None of above

8   Which of the following is considered as an advantage of CASE
   a) User Interface   b) Limited Function
   c) Absence of standard level of methodology   d) Limited Scope

9   The features which defines a system from the environment is known as
   _____.
   a) boundary   b) subsystem   c) blackbox   d) interface

10   The names of data stores, sources and destinations are written in _____ letters.
   a) Uppercase
   b) Lowercase
   c) Title case
   d) None

Q-2   Give short answers of the following questions: (ANY TEN)   20

1) Define system. Give two examples.

2) List types of system.

3) List steps of SDLC.

4) Explain Survey in SSADM

5) Draw the figure of SSADM

6) Explain Maintenance in short.

(P.T.O.)

①

7) Define Data transmission and Sorting.

8) Explain observation in brief.

9) Describe any two types of output.

10) List components of CASE Tools.

11) Define and draw the symbols used in DFDs.

12) List any four rules to be followed in construction of DFDs

Q-3	A	Discuss the characteristics of system.	05
	B	Explain the elements of system.	05

OR

Q-3	A	What is SDLC? List and explain the steps in 2 or 3 lines.	06
	B	Differentiate between System analysis and System design.	04

Q-4	A	Explain structured design in brief.	5
	B	List different stages of SSADM. Explain any two.	5

OR

Q-4	A	What are the advantages of SSADM ?	4
	B	List out sub processes of Structured Analysis. Explain one of them.	3
	C	Write a note on hardware study.	3

Q-5	A	Write a note on interview.	5
	B	Describe Questionnaires in detail.	5

OR

Q-5	A	Explain Data Validation Checks in Detail	5
	B	Explain basic steps in Data capture.	5

Q-6	Draw DFD for Railway reservation System.	10

OR

Q-6	List and Explain Case Components.	10

ALL THE BEST....