

SEAT No. \_\_\_\_\_

No. of Printed Pages : 2

[27/A10]

SARDAR PATEL UNIVERSITY  
BCA EXAMINATION, 2<sup>nd</sup> SEMESTER

Monday, 2<sup>nd</sup> April, 2018

10:00 a.m. to 1:00 p.m.

US02CBCA02

[System Analysis and Design]

Maximum Marks: 70

Q-1

Multiple Choice Question. [Each Question carries one Mark]

[10]

- 1) To conduct a detailed feasibility study, firstly an expert committee called \_\_\_\_\_.  
A. Steering Committee                      B. Review Committee  
C. Evaluation Committee                    D. None of these
- 2) \_\_\_\_\_ means the system is costly to maintain.  
A. Problem of Accuracy                    B. Problem of Validity  
C. Problem of Economy                    D. Problem of Capacity
- 3) \_\_\_\_\_ is used to find the maximum number of interface is required for sub system.  
A. n    B. n-1  
C. n\*(n-1)                                    D. n\*(n-1)/2
- 4) The \_\_\_\_\_ is a graphic representation of data movement, process and files.  
A. Data Dictionary                          B. DFD  
C. Decision Table                            D. None of these
- 5) Increased value in sales and net income is called \_\_\_\_\_.  
A. Recurring Cost                            B. Tangible Cost  
C. Intangible Cost                            D. One Time Cost
- 6) \_\_\_\_\_ involves the purchase of hardware and software.  
A. Programming                              B. Testing  
C. System Acquisition                        D. Conversion
- 7) \_\_\_\_\_ is the collection of data at its source.  
A. Original Recording                        B. Verification  
C. Control                                      D. Sorting
- 8) \_\_\_\_\_ can look for operational inefficiencies.  
A. Interview                                    B. Questionnaires  
C. Record Review                              D. Observation
- 9) The names of Data Stores, Sources and Destinations are written in \_\_\_\_\_ letter.  
A. Upper Case                                B. Lower Case  
C. Title Case                                    D. None of these
- 10) Which of the following is considered as an advantage of CASE?  
A. User Interface                              B. Limited Function  
C. Diagram Not Used                         D. Limited Scope

(1)

[PTC]

- Q-2 Give Answers for the following:(Any ten) [20]
- 1 Write difference between open and close system.
  - 2 Define: - Boundary and Environment.
  - 3 List Input, Process, Output and Feedback of university system.
  - 4 What is SSADM? List all methodology of SSADM.
  - 5 Explain system survey.
  - 6 Explain hardware study.
  - 7 List steps of data capture process.
  - 8 Explain Data Transmission.
  - 9 What do you mean by fact gathering technique?
  - 10 Write rules for constructing DFD.
  - 11 What is CASE? List Components of CASE.
  - 12 Draw the DFD for College Payroll System [Context Level].
- Q - 3 A) What is System? List Characteristics of System and Explain any two. [5]  
 B) Explain Feasibility study of SDLC. [5]
- OR
- Q - 3 A) List types of system and explain any two in detail. [5]  
 B) Write difference between system analysis and system design. [5]
- Q - 4 Explain structure design of SSADM with appropriate figure. [10]
- OR
- Q - 4 Explain structure analysis of SSADM with appropriate figure. [10]
- Q - 5 A) List basic steps of data capture process and Explain any two. [5]  
 B) Explain Interview in detail. [5]
- OR
- Q - 5 A) Explain check digit method (or Modulus – 11 check digit method) with example. [5]  
 B) Explain Questionnaires in detail. [5]
- Q - 6 A) Explain any two components of CASE in detail. [5]  
 B) Draw the DFD for Railway Reservation System(context and zero level). [5]
- OR
- Q - 6 A) List weakness of CASE and explain any one in detail. [5]  
 B) List benefits of CASE and explain any one in detail. [5]