PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA, Summer 2018 – 19 Examination

Semester: 2   Date: 22/04/2019
Subject Code: 05201154   Time: 2:00pm to 4:30pm
Subject Name: Structured Systems Analysis and Design   Total Marks: 60

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the followings.

A.   Do as directed.   **(05)**

  1. RAD stands for _____.
  2. Write down any four characteristics of system.
  3. What is Data Dictionary?
  4. Write down tools for System Analysis.
  5. SDLC stands for _____.

B.   Do as directed.

  1. SRS stands for _____.
      (a) Software Requirement Specification
      (b) System Requirement Specification
      (c) Software Requirement System
      (d) Social Requirement System
  2. Third phase of SDLC is _____.
      (a) System Evaluation
      (b) Problem Identification
      (c) Coding
      (d) Analysis
  3. In _____maintenance efforts will be constantly going on to perfect the system.
      (a) Adaptive
      (b) Corrective
      (c) Perfective
      (d) None
  4. SSADM does not include _____.
      (a) System Survey
      (b) Structure Survey
      (c) Maintenance
      (d) System Analysis
  5. Structured Analysis doesn't use _____.
      (a) E R Diagram
      (b) Data Dictionary
      (c) Structured Diagram
      (d) Decision Tree
  6. 0 Level DFD describes _____.
      (a) Interaction between system & outside entities
      (b) Full System Design
      (c) Overview of process, input & output
      (d) None
  7. Data about data known as _____.
      (a) Meta Data
      (b) Raw Data
      (c) Both
      (d) None
  8. System Analysis is the _____ of problem.
      (a) Solution
      (b) Examination
      (c) Collection information of current system
      (d) Preparing Logical Model

9. _____ system is an example of natural system.
   (a) Information
   (b) Business
   (c) Solar
   (d) Defense
10. **IS stands for _____.**
   (a) Integrated System
   (b) Information Service
   (c) Integrated Service
   (d) Information System

Q.2 Answer the followings.   **(15)**
   1. What is RAD?   (2)
   2. What is Decision Tree?   (2)
   3. What is Data Pyramid?   (2)
   4. Explain any two training methods.   (3)
   5. Explain JAD.   (3)
   6. What are the different types of System Maintenance?   (3)

Q.3 Answer the following. (Any three)   **(15)**
   1. What is DFD? Explain various notation used in DFD.
   2. Write short note on Fact Finding Techniques.
   3. What is SSADM? With diagram. Explain any one phase of SSADM.
   4. Draw E-R Diagram for Hospital Management System.

Q.4 Answer the following.
A. Differentiate open system and closed system with example.   **(05)**
B. Write a short note on SDLC.   **(10)**

                              OR
B. Draw Context Level DFD & First Level DFD for Online Shopping Portal. **(10)**