PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA., Summer 2017-18 Examination

Semester: 2   Date: 23-05-2018
Subject Code: 05201154   Time: 10:30AM to 01:00PM
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. Write short notes. (Each of 01 marks) (05)
    1. List Down Characteristics of System.
    2. List down six stages of SDLC?
    3. List down tools for System analysis.
    4. What is RAD?
    5. Define Decision Tree.

B. Multiple choice type questions. (Each of 01 marks) (10)
    1. _____ system is an example of Natural system.
             a) solar   b) information   c) business   d) defense
    2. The third step of SDLC is _____
             a) Problem identification   b) System evaluation
             c) System requirement analysis   d)   System study
    3. One of the example of recurring cost is _____ .
             a) Salary   b) feasibility study cost
             c) construction   d)   remodeling of computer room
    4. The inter connection & interactions between the subsystem are termed as _____ .
             a) boundary   b) subsystem   c) interface   d) blackbox
    5. One of the example of One time cost is _____ .
             a) Salary   b) construction   c) Equipment maintenance   d)   Supply
    6. Structured Analysis does not use _____
             a) Data Dictionary   b) Structured diagram   c) E R diagram   d) decision Trees
    7. In _____maintenance errors or bugs are rectified.
             a) Adaptive   b) Corrective   c) Perfective   d) None
    8. SSADM does not includes_____.
             a) System Survey   b) Structured Design   c) Maintenance   d) System Analysis
    9. _____is considered as an output of the Structure Analysis.
             a) Structured Specification   b) New System   c) Packaged Design   d) Test Plan.
    10. The example of conceptual system is _____.
             a) philosophy   b) solar   c) water   d) computer

Q.2 **Answer the followings.** (15)
    1. Differentiate open system and closed system with example. (02)
    2. What are different types of System maintenance? (02)
    3. List Tools of Prototyping. (02)
    4. Discuss RAD. (03)
    5. Prepare decision tree on login module. (03)
    6. Discuss Reverse Engineering. (03)

Q.3 Answer the following. (Any three) (Each of 05 marks)   **(15)**
    1. Create an E-R Diagram on "Online Shopping System".
    2. Explain SDLC's Preliminary Investigation stage in detail.
    3. How do you give Training to users? And Who give training to users?
    4. Discuss any two uses of Prototype.

Q.4 Answer the following.
    A. What is Data Pyramid? Explain in brief.   **(05)**
    B. Create Data Flow Diagram on "Online Shopping" [upto 1ˢᵗ Level].   **(10)**
<div align="center">**OR**</div>
    B. What is System Implementation/Conversion and its methods.   **(10)**