Sardar Patel University
Master of Computer Applications I Semester Examinations, April 2019
PS01CMCA24: Systems Analysis and Design

Date: 16/04/2019   Time: 10:00 am to 1:00 pm   Marks: 70
Tuesday

Q.1   Select an appropriate answer for each the following questions: [08]

1) _____ system interacts with its environment.
   a) Open
   b) Close
   c) Both open and close
   d) None of these

2) **Output of _____ type of systems are routine and exceptional reports.**
   a) TPS
   b) MIS
   c) DSS
   d) None of these

3) _____ is a repository of system related data, entities **and processes.**
   a) Questionnaire
   b) Decision table
   c) Data dictionary
   d) All of these

4) _____ **type of users perform the lower-level transactions.**
   a) Systems analyst
   b) End users
   c) Managers
   d) All of these

5) _____ **is an example of an integrated tool.**
   a) Code editor
   b) Screen developer
   c) CASE
   d) None of these

6) _____ **is not a requirements specification tool.**
   a) Interview
   b) Decision tree
   c) Decision table
   d) None of these

7) _____ **is also used as a feasibility tool.**
   a) SDLC
   b) Structured development
   c) Prototype
   d) None of these

8) _____ **a type of special systems test.**
   a) Peak load testing
   b) Range testing
   c) Recovery test
   d) All of these

(P.T.O.)

Q.2 **Answer following questions in brief.** **[ANY SEVEN]** **[14]**
1) Draw general diagram of system with appropriate labels.
2) Define subsystems. Also give an example of it.
3) List all types of committees to develop an information system.
4) Give structure of a decision tree.
5) List any two tools of prototype.
6) List typical components of a data dictionary.
7) Define structured systems analysis and design.
8) List any two CASE tools.
9) What is the use of post implementation reviews?

Q.3 **[A]** Explain SDLC in detail. **[06]**
[B] Explain in detail the characteristics of TPS. **[06]**
OR
[B] Explain in detail the characteristics of DSS. **[06]**

Q.4 **[A]** Define systems analyst. Explain in details duties, **[06]** responsibilities and roles of a systems analyst.
[B] Draw FDD, context level DFD and detailed DFD for a **[06]** system managing inventory of an online shopping management system.
OR
[B] Draw FDD, context level DFD and detailed DFD for a **[06]** system managing attendance of employees in an organization.

Q.5 **[A]** List and explain (i) advantages and (ii) disadvantages of a **[06]** typical CASE tool.
[B] Write different steps of application prototyping. Explain **[06]** these steps in detail.
OR
[B] Explain any three misconceptions of prototyping. **[06]**

Q.6 **[A]** Write a short note on quality assurance of an **[06]** information system.
[B] List all conversion methods for information system. **[06]** Explain any one in detail.
OR
[B] Distinguish between in-house and in-service training to **[06]** users of an information system.