Sardar Patel University
Post Graduate Diploma in Computer Applications I Semester Examinations

PS01CDCA25: Systems Analysis and Design

Date: 20/04/2018   Time: 10:00 am to 1:00 pm   Marks: 70

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

1) Systems development consists of two phases namely _____.
   a) Analysis and design
   b) Coding and testing
   c) Coding only
   d) Conversion of old system into new

2) _____ is a physical or logical line of separation of systems components from its environment.
   a) Customers
   b) Boundary
   c) Users
   d) None of these

3) _____ is a fact finding technique.
   a) Interview
   b) Questionnaire
   c) Observation
   d) All of these

4) _____ is a component of data dictionary.
   a) Users
   b) Input
   c) Output
   d) None of these

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

6) A _____ is undertaken to determine the worthiness of improving or developing a new system.
   a) Feasibility studies
   b) Systems review & testing
   c) Walkthrough
   d) None of these

7) Full form of DFD is _____.
   a) Data Flow Design
   b) Data Flow Diagram
   c) Data Filtering and Decoding
   d) None of these

8) _____ is a centralized component in a typical CASE tool.
   a) Data dictionary
   b) Data base
   c) Coding interface
   d) None of these

C P. T. O.)

Q.2 **Answer following questions in brief.** **[ANY SEVEN]** **[14]**
1) Define system. Give an example of the same.
2) List any three committees that manage systems development processes.
3) Give any two characteristics of open system.
4) Give any two tools for systems analysis.
5) Give structure of decision table.
6) List any two misconceptions of prototype.
7) What is certification of a system? Explain in one line.
8) What are the outputs of systems analysis?
9) Give example of any two CASE tools.

Q.3 **[A]** Draw general diagram of a system. Also provide explanation **[06]** of every component in detail.

[B] Explain various users of information systems. **[06]**

OR

[B] Explain (i) TPS and (ii) DSS in detail. **[06]**

Q.4 **[A]** Explain SDLC in detail. **[06]**
[B] Explain various symbols used in DFDs by giving its detail **[06]** descriptions.

OR

[B] Draw FDD, context level DFD and detailed DFD for a system **[06]** managing online inventory of glossary store.

Q.5 **[A]** Write a short note on CASE tools. **[06]**
[B] Explain prototype as a systems development tool. **[06]**

OR

[B] Write a short note on data dictionary. **[06]**

Q.6 **[A]** Explain (i) unit testing and (ii) integration testing methods in **[06]** detail.

[B] Explain various systems quality parameters in detail. **[06]**

OR

[B] Describe approaches of reliability in detail. **[06]**

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