[A-1] **S A R D A R   P A T E L   U N I V E R S I T Y**

Post Graduate Diploma in Computer Applications I Semester Examinations
PGDCA-105 : SYSTEMS ANALYSIS AND DESIGN

Date: 28/10/2016   Time: 10:00 am to 1:00 pm   Marks: 70

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

1) _____ is a type of system that processes routine transactions of the business.
   a) TPS
   b) MIS
   c) ES
   d) None of these

2) _____ is one of the approaches to develop new system.
   a) Feasibility test
   b) SDLC
   c) Requirement determination
   d) None of these

3) In a medium size firm, systems analysts duty is to do _____.
   a) Analysis
   b) Design
   c) Analysis and design
   d) None of these

4) Pay slips, marks sheets and superstore bills are the examples of _____.
   a) Input
   b) Process
   c) Output
   d) None of these

5) _____ is a device or method to facilitate some tasks with greater efficiency.
   a) Tool
   b) Prototype
   c) System
   d) None of these

6) Small projects, limited to a group/section of users can be developed using _____ approach.
   a) Organizational development
   b) End users development
   c) Cost-beneficial
   d) None of these

7) Central part of a CASE tool is a/an _____.
   a) Diagram
   b) Specification
   c) Data dictionary
   d) None of these

8) Generally context level DFD contains _____ process.
   a) One
   b) Two
   c) Many
   d) None of these

Q.2 Answer following questions in brief.   [ANY SEVEN]   [14]
1) Define system. Also give an example of a system.
2) List duties of systems analyst in a small firm.
3) Differentiate open and close systems.
4) What is MIS? What are the typical outputs of an MIS?
5) Define DD. List some components of a DD.
6) Give full form of: FDD and DFD. Define these terms in one line each.
7) What is end users approach for systems development?
8) Define maintenance in brief.
9) Define post implementation review. Also list advantages of it.

Q.3 **[A]** Write a short note on system's general structure by giving its diagram. Also   [06]
list some examples in your note.

[B] Give the full form of SDLC and describe its phases in detail.   [06]
OR
[B] Draw FDD, context level DFD and detailed DFD for a system managing   [06]
products in an inventory.

Q.4 **[A]** Define prototype. List steps of prototype for systems development. Also give   [06]
diagram of the prototype steps.

[B] Draw a decision table of your choice. Explain any two advantages of using   [06]
decision tables.
OR
[B] Describe three feasibility tests in detail.   [06]

Q.5 **[A]** Explain any one requirement investigation method.   [06]
[B] Define a general structure of a CASE tool by giving its diagram.   [06]
OR
[B] List the objectives of design. Explain how should be the ideal design.   [06]

Q.6 **[A]** Explain various types of testing methods.   [06]
[B] Write a note on output design of an information system.   [06]
OR
[B] Define and describe: (i) direct conversion (ii) parallel conversion.   [06]

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