

SARDAR PATEL UNIVERSITY

Post Graduate Diploma in Computer Applications I Semester Examinations

PGDCA-105: SYSTEMS ANALYSIS AND DESIGN

Date: 09/04/2016

Time: 2:30 pm to 5:30 pm

Marks: 70

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

- 1) **Which of the following is not a component of a system?**
 - a) Input
 - b) Output
 - c) Processes
 - d) None of these
- 2) _____ **is one of the reasons to develop new system.**
 - a) To make profit
 - b) To improve quality
 - c) To change exiting procedures
 - d) None of these
- 3) _____ **is not the fact finding technique.**
 - a) Interviewing
 - b) Questionnaires
 - c) Data input
 - d) Record inspection
- 4) _____ **has branches and leaves to document decision making procedure.**
 - a) Decision table
 - b) Interview
 - c) Structured English
 - d) None of these
- 5) _____ **is an example of a tool.**
 - a) Programming Languages
 - b) Screen generator
 - c) Report Generator
 - d) All of these
- 6) _____ **is a type of system that produces reports.**
 - a) MIS
 - b) TPS
 - c) DSS
 - d) None of these
- 7) **CASE tool is a/an _____ tool.**
 - a) Front end
 - b) Testing
 - c) Back End
 - d) None of these
- 8) _____ **method also used to collect additional requirements from users.**
 - a) SDLC
 - b) Prototype
 - c) Structured development
 - d) None of these

Q.2 Answer following questions in brief. [ANY SEVEN] [14]

- 1) Define TPS.
- 2) What is technical feasibility?
- 3) Define logical boundary of a system by giving an example.
- 4) Give full form and one line description of MIS and DSS.
- 5) Explain close - ended questions in questionnaire.
- 6) Define end users approach to develop a system.
- 7) List three methods of estimating time and effort for a project.
- 8) What are the typical outputs of an analysis phase?
- 9) Define unit testing and integration testing.

Q.3 [A] Explain concept of system with suitable diagram. Discuss its components in brief. [06]

[B] Explain requirement determination in detail. [06]

OR

[B] Write a short note on duties of systems analyst. [06]

Q.4 [A] Define and describe CASE tools in details by giving its general diagram. [06]

[B] Draw FDD, context level DFD and detailed DFD for a system for typical bank account management systems. [06]

OR

[B] Explain various committees to monitor and control the system development process. [06]

Q.5 [A] Describe of prototype as a method for system development approach. [06]

[B] Explain components of a data dictionary in detail by giving suitable examples. [06]

OR

[B] Explain any one form of decision table with an example. [06]

Q.6 [A] Describe various training methods to train users of a system. [06]

[B] Write a short note on input design. [06]

OR

[B] Explain various types of conversion methods in brief. [06]

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