

SEAT No. _____

[37]

SARDAR PATEL UNIVERSITY

M. Sc.(Information Technology) Semester – I Examinations, 2018 (NC)

PS01CINT25: Systems Analysis and Design

Date: 21/04/2018

Time: 02:00 PM to 05:00 PM

Marks: 70

Q-1

Select the most appropriate answer for the following questions:

[08]

1. _____ is a logical boundary of system development.
 - (a) Condition
 - (b) Deadline
 - (c) A and B both
 - (d) None of these
2. _____ is requirements documentation technique.
 - (a) Procedure
 - (b) Action
 - (c) Structured English
 - (d) All of these
3. _____ is an example of typical transaction processing system.
 - (a) Students attendance system
 - (b) Summary report of Web log
 - (c) Business procedure scheduling
 - (d) All of these
4. Requirement _____ is a mixed blessing.
 - (a) Investigation
 - (b) Specification
 - (c) Documentation
 - (d) None of these
5. _____ testing tests an individual unit of a system.
 - (a) Independent
 - (b) Integrated
 - (c) Unit
 - (d) Classical
6. _____ is a set of components working together for common goal.
 - (a) Decision makers
 - (b) System
 - (c) Data repository
 - (d) None of these
7. _____ is a repository of all data related to the system.
 - (a) Constant
 - (b) Integrated tool
 - (c) CASE tool
 - (d) None of these
8. _____ feasibility study checks cost-benefit aspects of the system.
 - (a) Economical
 - (b) Technical
 - (c) Operational
 - (d) None of these

C.P.T.O.)

- Q-2** Answer the following questions (ANY SEVEN). [14]
1. Define: Systems Analysis.
 2. Differentiate between open system and closed system.
 3. Define TPS. Give an example of it.
 4. Explain data dictionary.
 5. Define: Data and Information.
 6. What is (i) vendor and (ii) in house training?
 7. What are the major quality parameters that need to be considered while developing system?
 8. List methods of time estimation. Explain *ANY ONE* in brief.
 9. Explain system testing.

- Q-3[A]** What is SDLC? List and discuss its phases in brief. [06]
- [B]** List all fact finding techniques for requirements gathering. Explain *ANY ONE* in detail. [06]

OR

- [B]** Explain decision tree for documenting decisions and procedures taking suitable example. [06]

- Q-4[A]** Explain *ANY THREE* committees for monitoring information systems development. [06]
- [B]** Draw all symbols of DFD with proper labels. List different rules used in designing DFDs. [06]

OR

- [B]** Draw an FDD, context level DFD and next level DFD for Library Management System. [06]

- Q-5[A]** Explain CASE tools in detail. Also write benefits of using CASE tool. [06]
- [B]** List and discuss front end tools and back end tools. [06]

OR

- [B]** Write a short note on application prototyping. [06]

- Q-6[A]** What is maintenance? List and explain different types of maintenance. [06]
- [B]** Explain following terms related to conversion of a software: [06]
- (i) Direct conversion
 - (ii) Parallel conversion

OR

- [B]** Explain: Post implementation review. [06]

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