

[109]

SEAT No. _____

SARDAR PATEL UNIVERSITY

M. Sc.(Information Technology) Semester – I Examinations, 2019

PS01CINT25: Systems Analysis and Design

Date: 29/03/2019, Friday Time: 10:00 AM to 01:00 PM

Marks: 70

Q-1

Select the most appropriate answer for the following questions:

[08]

1. _____ is a kind of system interacts with its external environment.
 - (a) Closed system
 - (b) Open system
 - (c) A and B both
 - (d) None of these
2. _____ can be defined as logical boundary of the system's development.
 - (a) Tools
 - (b) Device
 - (c) Deadline
 - (d) None of these
3. _____ is an example of management information system.
 - (a) Routine / periodical reports
 - (b) Summary
 - (c) Business procedure details
 - (d) All of these
4. Requirement _____ is a mixed blessing.
 - (a) Investigation
 - (b) Specification
 - (c) A and B both
 - (d) None of these
5. _____ feasibility study checks economical aspects of the system.
 - (a) Operational
 - (b) Technical
 - (c) Economical
 - (d) None of these
6. In black box process is always _____.
 - (a) Visible
 - (b) Partially visible
 - (c) Hidden
 - (d) None of these
7. _____ is a repository of all data related to the system.
 - (a) Constant
 - (b) Integrated tool
 - (c) Development tool
 - (d) None of these
8. _____ is a kind of tool which can be used for documenting procedures and decisions.
 - (a) Structured English
 - (b) Decision Tree
 - (c) A and B both
 - (d) None of these

(1)

C.P.T-09

- Q-2** Answer the following questions: (ANY SEVEN) [14]
1. Define: Data and Information.
 2. Draw general model of a system.
 3. Define DSS. Give an example of it.
 4. Differentiate between Physical DFD and Logical DFD.
 5. What is Data Dictionary?
 6. Give basic structure of decision table.
 7. What is feasibility study?
 8. List methods of time estimation. Explain Any One in brief.
 9. List various types of conversion methods.
- Q-3[A]** What is SDLC? List and explain its phases in brief. [06]
- [B]** List and explain various basic components of system. [06]
- OR**
- [B]** Explain role of system analyst in detail. [06]
- Q-4[A]** List and explain different types of requirement determination techniques. [06]
- [B]** Draw an FDD, context level DFD and next level DFD for Inventory management system. [06]
- OR**
- [B]** Draw an FDD, context level DFD and next level DFD for Bus reservation system. [06]
- Q-5[A]** List and explain various misconceptions in prototype development. [06]
- [B]** Write a short note on tools for prototype development. [06]
- OR**
- [B]** Explain CASE tools in detail. Also write benefits of using CASE tools. [06]
- Q-6[A]** List and explain various time estimation methods used in systems development. [06]
- [B]** Explain post implementation review in detail. [06]
- OR**
- [B]** Write a short note on training users. [06]

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