SEAT No.————

[93]

SARDAR PATEL UNIVERSITY
MCA II Semester Examinations, 2018
PS02CMCA02: Systems Analysis and Design

Date: 26/10/2018 Friday   Time: 10:00am to 1:00pm   Marks: 70

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

1. _____ is a set of components working together for common objectives.
   - (a) Analysis
   - (b) Design
   - (c) System
   - (d) None of these

2. Output of _____ type of systems is routine and exceptional reports.
   - (a) TPS
   - (b) MIS
   - (c) DSS
   - (d) Any of these

3. Example of logical boundary of system is _____.
   - (a) Town
   - (b) Campus
   - (c) Building
   - (d) None of these

4. Requirements _____ is a mixed blessing.
   - (a) Investigation
   - (b) Specification
   - (c) Anticipation
   - (d) Documentation

5. The main purpose of a DFD is to specify _____ between systems components.
   - (a) Flow of control
   - (b) Flow of data
   - (c) Strength
   - (d) None of these

6. A product code in a car showroom is Batch_2018_123. It follows _____ type of encoding.
   - (a) Significant digit subset code
   - (b) Sequential code
   - (c) Batch code
   - (d) None of these

7. Close system interacts with _____.
   - (a) Nothing
   - (b) Customers
   - (c) Everything
   - (d) Users

8. _____ feasibility checks user friendliness of the system.
   - (a) Operational
   - (b) Technical
   - (c) Economical
   - (d) None of these

Q-2   Answer the following questions in brief: (ANY SEVEN).   **[14]**
1. Define systems analyst. Also list his duties.
2. Differentiate: open ended questionnaires and close ended questionnaires.
3. Define TPS. Give an example of it.
4. Define FDD. What are the uses of an FDD?
5. What is (i) vendor and (ii) in house training?
6. Explain difference between validation and verification.
7. List different conversion methods.
8. Explain integrated testing.
9. Explain post implementation reviews.

Q-3[A]   What is SDLC? Give its full form and discuss its phases in detail.   **[06]**
[B]   Explain in detail all feasibility tests used in systems analysis and design.   **[06]**

OR

[B]   Explain phases of requirements determination in detail.   **[06]**

Q-4[A]   Define and explain importance of data dictionary by giving its components and   **[06]**
structure.
[B]   Draw an FDD, context level DFD and next level DFD for typical attendance   **[06]**
management system.

OR

[B]   Explain (i) physical DFDs and (ii) logical DFDs with their uses and applications.   **[06]**

Q-5[A]   Exampling CASE tools in detail. Also give benefits of using CASE tool.   **[06]**
[B]   Explain various strategies for prototype development.   **[06]**

OR

[B]   Explain in detail misconceptions of prototype.   **[06]**

Q-6[A]   Explain various types of testing in detail.   **[06]**
[B]   Explain various methods of time estimation for systems development.   **[06]**

OR

[B]   Write a short note on systems design elements.   **[06]**

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