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SARDAR PATEL UNIVERSITY
External Examination
M. Sc. – Information Technology (Integrated) – Second Semester
PS02CIIT02: Systems Analysis and Design
5th April, Tuesday, 2016

Time: 10:30am to 01:30pm

Total Marks: 70

Q-1 Select an appropriate option.

10

- 1 _____ is defined as the activity that makes possible the transformation of input to output.
(a) Input (b) Process (c) Output (d) Goal
- 2 _____ is a control device to maintain the equilibrium in a system.
(a) Feedback (b) Subsystem (c) Black box (d) Interface
- 3 _____ system is an example of natural system.
(a) Solar (b) Computer
(c) Business Organization (d) Education
- 4 Cost of converting from present system to proposed system is called _____.
(a) Recurring Cost (b) Tangible Cost
(c) Intangible Cost (d) One Time Cost
- 5 _____ is considered as an output of the Structure Analysis.
(a) Structure Specification (b) New System
(c) Packaged Design (d) Test Plan
- 6 _____ involves the purchase of hardware and software.
(a) Programming (b) Testing (c) System Acquisition (d) Conversion
- 7 The DFDs that show "How the process is going on" is known as ___ DFDs.
(a) Physical (b) Logical (c) Physiological (d) None of these
- 8 _____ are useful for gathering numerical data.
(a) Interview (b) Questionnaires
(c) Record Review (d) Observation
- 9 Software _____ is an endorsement of the correctness of the program.
(a) Verification (b) Testing (c) Validation (d) Certification
- 10 _____ is also known as Data Dictionary.
(a) Diagramming Tools (b) Code Generator
(c) Interface Generator (d) Information Repository

Q-2 Answer the following questions. (Any TEN) 20

- 1 Draw the general model of a system.
- 2 Define : Subsystem
- 3 List methods of feasibility study.
- 4 What is SSADM?
- 5 Explain system survey.
- 6 Explain hardware study.
- 7 List fact gathering techniques.
- 8 Write in brief about system flow chart.
- 9 List any two differences between physical and logical DFDs.
- 10 What is CASE?
- 11 Define Quality Assurance and list levels of Assurance.
- 12 List Weakness of CASE.

Q-3

- (a) Who is system analyst? Explain role of system analyst. 5
(b) Explain types of system. 5

OR

Q-3

- (a) Explain Characteristics of System. 5
(b) Write difference between system analysis and system design. 5

Q-4

- (a) Explain structure analysis of SSADM. 5
(b) Write difference between one-time cost and recurring cost. 5

OR

Q-4

- (a) Write short note on documentation. 5
(b) Write advantages of SSADM. 5

Q-5

- (a) Explain Interview in detail. 5
(b) What is DFD? Draw the symbols used in DFD. Write rules for constructing DFD. 5

OR

Q-5

- (a) Explain Questionnaires in detail. 5
(b) Draw the DFD for College Payroll System. 5

Q-6 Explain components of CASE. 10

OR

Q-6 Explain benefits of CASE. 10

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