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SARDAR PATEL UNIVERSITY  
M.Sc.IT (Integrated) EXAMINATION, 2<sup>nd</sup> SEMESTER

Saturday, 25th April, 2015

2:30 p.m. to 5:30 p.m.

PS02CHIT02

[SYSTEM ANALYSIS AND DESIGN]

Maximum Marks: 70

Q-1

Multiple Choice Question.[Each Question carries one Mark]

[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) Operational evaluation consider \_\_\_\_\_
 

A. Response time	B. Easy of use
C. Reliability of computation	D. All of these
- 3) \_\_\_\_\_ is used to find the maximum number of interface is required for sub system.
 

A. n	B. n-1
C. n*(n-1)	D. n*(n-1)/2
- 4) Which of the following tools are used in structured analysis?
 

A. Data Dictionary	B. Structured English
C. Decision Table	D. All of these
- 5) Which of the following is not a component of system implementation?
 

A. Programming	B. Testing
C. Designing	D. Conversion
- 6) Structure Analysis does not use \_\_\_\_\_
 

A. Data Dictionary	B. Structured Diagram
C. E – R Diagram	D. Decision Tree
- 7) The names of Data Stores, Sources and Destinations are written in \_\_\_\_\_ letter.
 

A. Upper Case	B. Lower Case
C. Title Case	D. None of these
- 8) \_\_\_\_\_ is not the fact gathering techniques.
 

A. Interview	B. Questionnaires
C. Record Review	D. Data Input
- 9) \_\_\_\_\_ tool automate the preparation of computer software.
 

A. Diagramming Tools	B. Code Generator
C. Interface Generator	D. Management Tools
- 10) Software \_\_\_\_\_ is an endorsement of the correctness of the program.
 

A. Verification	B. Testing
C. Validation	D. Certification

[PTO]

Q-2 Give Answers for the following:(Any ten) [20]

- 1 Define System with example.
- 2 Draw the general model of a business system.
- 3 Define :- Boundary and Environment.
- 4 List all methodology of SSADM.
- 5 Explain system survey.
- 6 Explain hardware study.
- 7 Draw the context level DFD of college payroll system.
- 8 Define DFD and list the symbols used in it.
- 9 List fact gathering techniques.
- 10 Define Quality Assurance and list levels of Assurance.
- 11 List Components of CASE.
- 12 Define Test Case.

Q - 3 A) Explain role of system analyst. [5]  
B) Write difference between system analysis and system design. [5]

OR

Q - 3 A) Explain Interface. [5]  
B) Explain Problem Identification. [5]

Q - 4 A) Explain need for structured analysis and design. [5]  
B) Explain structure design of SSADM. [5]

OR

Q - 4 A) Explain structure analysis of SSADM. [5]  
B) Write advantages of SSADM. [5]

Q - 5 A) Explain Interview in detail. [5]  
B) Write difference between PDFD and LDFD. [5]

OR

Q - 5 A) Explain Questionnaires in detail. [5]  
B) Draw the context level and zero level DFD for Railway Reservation System. [5]

Q - 6 Explain components of CASE. [10]

OR

Q - 6 Explain benefits of CASE. [10]

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