

Total No. of Questions : 5]

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Roll No

MCADD - 403

M.C.A. (Dual Degree), IV Semester

Examination, June 2016

System Analysis and Design

Time : Three Hours

Maximum Marks : 70

Note : Total questions to be answered by candidate shall be only five (one from each unit out of which a, b, c part is compulsory and d part will have an internal choice). Assume missing data, if any, suitably.

Unit - I

1. a) Discuss the basic characteristics of open system. In what way is a system entropic? 2
- b) What is meant by the analyst/user interface? Why is it a problem? 2
- c) When does an analyst terminate a project? How does it tie in with post implementation? Explain. 3
- d) There are several considerations in deciding on a candidate system. What are they? Why are they important? 7

OR

What is SDLC? Explain all the steps of SDLC with basic task of each step along with the results. 7

Unit - II

2. a) Why is it difficult to determine user requirements?
Illustrate. 2
- b) What considerations are involved in feasibility analysis?
Which consideration do you think is the most crucial?
Why? 2
- c) Distinguish between validity and reliability. How are they
related? 3
- d) In what way(s) is a decision tree and a data flow
diagram related? What about a decision tree and
structured English? 7

OR

Construct various level(s) DFD for Retailer system. 7

Unit - III

3. a) "Savings are realized when a cost advantage of some kind
exists". Elaborate. 2
- b) What is the goal of input design and output design? 2
- c) "Structured design provides the best partitioning of a
program into small, independent modules organized in a
top-down manner". Do you agree? Illustrate. 3
- d) Explain the components of the HIPO package format.
How would one generate a HIPO chart? 7

OR

What is a form? How much instruction does a form need?
Are written instructions required on a printed form?
Explain. 7

Unit - IV

4. a) What is implementation? How does it differ from conversion? 2
- b) Discuss the role and importance of Database Administrator. 2
- c) Why is a database important in system? Also describe the objective of database? Specifies the utility of normalization. 3
- d) Explain the difference between: 7
- Logical and Physical record
 - File activity and file volatility
 - Indexed-sequential and inverted list

OR

If new system design is likely to meet user specification, why do users resist change? How would one reduce resistance to change? Explain in detail. 7

Unit - V

5. a) What software criteria are considered for selection? 2
- b) In what way is computer negotiation an art? Explain. 2
- c) What are the major threats to system security? Which one(s) is the most serious? Why? 3
- d) Hardware selection requires the analysis of several performance categories. For a first-time user of microcomputers, what category or categories would be most important? Why? 7

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OR

What is disaster/ recovery? Why is it important? Who initiates the planning? What procedure is involved? Explain.

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