

MCA (Revised) / BCA (Revised)

Term-End Examination

December, 2017

02160

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Time : 3 hours

Maximum Marks : 100

(Weightage : 75%)

Note : *Question number 1 is compulsory. Attempt any three questions from the rest.*

1. (a) List the underlying principles for a prototype design. Under which conditions will this design be useful ? With the help of an example system, explain its approach. 10
- (b) Draw a 0-level and 1-level DFD of a "Library Information System". Make necessary assumptions. 10
- (c) Draw ERD for a "Library Information System". Make necessary assumptions. 10
- (d) Assume that an organization does not implement MIS. However, after a couple of years, it decides to implement it. What problems do you anticipate in implementing MIS in an organization which did not implement it earlier ? How would you handle them ? 10

2. (a) Define a “Decision Support System (DSS)”. What are its characteristics ? Also, list and explain various components of a DSS. 10
- (b) Define CASE. Explain its various components and tools. Give any two examples of CASE tools. 10
3. (a) Develop SRS outline for a “Library Information System”. Make necessary assumptions. 10
- (b) Explain the five types of system testing. 10
4. (a) Explain the process of designing Forms and Reports. 10
- (b) Explain any five different fact finding techniques. 10
5. Write short notes on the following :
- (a) Different Standards for Documentation 10
- (b) Audit of Transactions on Computer 10
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