

MCA (Revised) / BCA (Revised)

Term-End Examination

June, 2018

02055

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) Draw a 0-level and 1-level DFD of a "Grade Card Generation System for a University". Make necessary assumptions. 10
- (b) Draw an ERD for a "Grade Card Generation System for a University". Make necessary assumptions. 10
- (c) Write SRS outline for "Grade Card Generation System for a University". Make necessary assumptions. 10
- (d) Explain various approaches for development of information systems. 10

2. (a) What do you mean by “Feasibility Study” ?
Explain different types of feasibility studies. 10
- (b) With the help of an example, explain different types of fields in a table. Also, explain rules for naming tables and fields. 10
3. (a) Explain different types of maintenance activities of a software system. 10
- (b) Explain the differences between various types of Object-oriented CASE Tools. 10
4. (a) Define the term “Data Dictionary”. Give an example. 10
- (b) Why do analysts use data dictionaries ?
List the reasons. 10
5. Write a short notes on the following :
- (a) Real Time Systems and Distributed Systems 10
- (b) Cost-Benefit Analysis 10
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