No. of Printed Pages : 3   **MCS-014**

MASTER OF COMPUTER APPLICATIONS (REVISED)/ BACHELOR OF COMPUTER APPLICATIONS (REVISED) (MCA/BCA)

Term-End Examination

June, 2021

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Time : 3 Hours   *Maximum Marks : 100*

Weightage : 75%

Note : (*i*) *Question No.* **1** *is compulsory.*

(*ii*) *Attempt any* **three** *questions from the rest.*

1. (a) Draw DFD upto 2nd level (start from level-0) for a 'Library Information System'. Make necessary assumptions.   10

P. T. O.

(b) Explain any *two* techniques for performing requirements analysis.   10

(c) Draw ERD for a 'Library Information System'. Make necessary assumptions.   10

(d) Explain different models of database design. Give examples.   10

2. (a) What is meant by CASE ? Explain various components of CASE.   10

(b) What is meant by reverse engineering ? What is meant by reengineering ? How do they differ from each other ?   10

3. (a) What are forms ? Explain the process of design of forms.   10

(b) Is system maintenance essential ? Explain different types of maintenance.   10

4. (a) Explain various types of file organization. What are the differences between a Master File and a Transaction File ? 10

(b) What are inheritance and aggregation diagrams ? Write differences between them. 10

5. (a) Explain various steps involved in the process of documentation. 10

(b) What is cohesion ? Explain any *four* types of cohesion. 10

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