No. of Printed Pages : 3

MCS-014

MCA (Revised) / BCA (Revised)

Term-End Examination

June, 2019

08952

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Time : 3 hours *Maximum Marks : 100*

(Weightage : 75%)

Note : *Question no. 1 is* ***compulsory****. Answer any* ***three*** *questions from the rest.*

1. (a) Describe the significance of a Data Flow Diagram (DFD). Draw DFD's upto 2nd level for a *Study Centre Management System* depicting various processes, data flow and data repositories. Follow all the conventions properly. *10*

(b) Describe Open systems and Closed systems. Give two examples for each. *10*

(c) What is the role of fact finding techniques in systems development ? Mentioning their advantages and disadvantages, explain the following fact finding techniques : 10

(i) Interviews

(ii) Group Discussions

(d) List and explain any two object oriented CASE tools along with a suitable example. 10

2. (a) Describe the following types of maintenance activities : $4 \times 2\frac{1}{2} = 10$

(i) Corrective maintenance

(ii) Adaptive maintenance

(iii) Perfective maintenance

(iv) Preventive maintenance

(b) Define the term Audit. List its objectives. Also, discuss the responsibility of system auditor. 10

3. (a) Define an expert system. How are they different from traditional information systems ? Explain various components of an expert system. Mention two examples of expert systems. 10

(b) Describe the criteria for form design and report designs. 10

4. (a) With reference to RDBMS, explain the use of the following files in a system : *5×2=10*

(i) Master file

(ii) Transaction file

(iii) Archive file

(iv) Audit file

(v) Work file

(b) How does a system analyst contribute to the success of a system ? *10*

5. Write short notes on the following : *4×5=20*

(a) Prototype Approach

(b) Joint Application Development (JAD)

(c) SRS

(d) Decision Support Systems