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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%)

10

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 2<sup>nd</sup> level for a Study Centre Management System depicting various processes, data flow and data repositories. Follow all the conventions properly.
  - (b) Describe Open systems and Closed systems.Give two examples for each.

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

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2.

**3.** 

10

report designs.

4.	(a)	• • •
		of the following files in a system : $5 \times 2 = 10$
		(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?
5.	Writ	e short notes on the following : $4 \times 5 = 20$
	(a)	Prototype Approach
	(b)	Joint Application Development (JAD)
	(c)	SRS
	(d)	Decision Support Systems