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**CS-05** 

## BACHELOR OF COMPULER APPLICATIONS

(BCA) (PRE-REVISED)

Term-End Examination
December, 2019

CS-05 : ELEMENTS OF SYSTEM ANALYSIS

## **AND DESIGN**

Time: 3 Hours

Maximum Marks: 75

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

(a) Consider "Railway Information System"
 (RIS). Draw DFD's upto 3 levels depicting various processes, data flows and data repositories after making necessary assumptions.

(b) Define the terms "Design". Explain the

		various tasks that are performed as part of	Ē
		"Design" phase.	
(0	e)	What is Ergonomics? Explain its role in	ì
		"Design".	
2. (8	a)	What is cardinality and degree in the	)
		context of E-R diagram? Explain Unary	7
		and Binary relationships with the help o	f
		an example.	}
(1	b)	What is Documentation? Explain features	3
		of each type of Documentation.	7
3. (	a)	Explain various components of multimedia	.•
			8
(	b)	What is a HIPO chart? Give an example	١.
		What are its advantages?	7
4. (	a)	Explain the process of performing	g
		Cost-Benefit Analysis with the help of a	n
		example.	)
(	(b)	Write a short note on Software Reliabilit	у
·	,	and Software Maintenance.	5

- (a) Explain the Indexed sequential file organisation. List its advantages and disadvantages in comparison with Random File Method.
  - (b) List and explain the factors that need to beconsidered for a good form design.5

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