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## BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

## **Term-End Examination**

00440 December, 2017

## 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) Considering a Food Ordering System, draw a 1. Data Flow Diagram (DFD) depicting various processes, data flows and data repositories after making necessary assumptions. 8 What is Ergonomics ? Justify the need of (b) ergonomics in system design. 5 Explain why the aspect of HCI is very (c) important in system design. Explain the various factors that must be considered for providing good and efficient Human Computer Interface (HCI). 5
  - (d) What is Feasibility Study ? Explain various types of feasibility studies. 12

**CS-05** 

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**CS-05** 

<b>2.</b>	(a)	What are Flow charts ? Explain the various elements of a flow chart.	8
	(b)	Discuss questionnaire as a method of fact finding. Comment on its usefulness by giving suitable examples.	7
3.	(a)	What is SDLC ? Explain briefly all the phases of SDLC with any specific example.	7
	(b)	What is the full form of VTOC ? Explain its significance. Draw a VTOC for any system (task) of your choice.	8
4.	( <b>a</b> )	What is Prototyping ? Explain all the phases of prototyping with an example.	10
	(b)	What is a Form ? Explain four factors to be considered in form design.	5
5.	( <b>a</b> )	"Conversion is the process of changing from the old system to the newly developed one." Explain any two methods of conversion.	5
	(b)	Explain the following with an example for each :	10
		(i) Gantt Chart	
		(ii) PERT Chart	