Time: 3 hours

CS-05

Maximum Marks: 75

P.T.O.

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

Term-End Examination February, 2021

CS-05 : ELEMENTS OF SYSTEM ANALYSIS AND DESIGN

| <i>No</i> | | hree questions from the rest. | апу |
|-----------|-----|--|------------|
| 1. | (a) | Consider a Study Centre Management System. Draw DFD's till Level-2 depicting various processes, data flows and data repositories. | 10 |
| | (b) | What is HCI? Why, when and where is it used? | ϵ |
| | (c) | What is a Data Dictionary? Describe its structure and uses. | 4 |
| | (d) | Explain the following: (i) Cost Benefit Analysis (ii) Feasibility Study | 10 |
| 2. | (a) | What is Software Crisis? Describe the problems related to software crisis from the perspective of a programmer and user. | 8 |

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| | (b) | What is a Programming Language? Describe the salient features of the various generations of programming languages, specifying one example language for each generation. | 7 |
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| 3. | (a) | What are the different methods of fact finding? Discuss Interviewing as a method for fact finding with the help of an example. | 10 |
| | (b) | Differentiate between the following: (i) Flat files and Database(ii) System Testing and Unit Testing | 5 |
| 4. | (a) | What is a Test Design Document? Explain the contents of this document. | 8 |
| | (b) | What is "Benchmark Testing"? Explain briefly with the help of an example. | 7 |
| 5. | (a) | What is Decision Table? Describe its structure. Explain application of decision table with the help of an example. | 5 |
| | (b) | Write short notes on the following: (i) Transaction Processing System (ii) GUI Design (iii) VTOC (iv) Software Piracy (v) Software Maintenance | 10 |
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