B.C.A. (2010 Course Sem- II : SUMMER - 2019
SUBJECT: SYSTEMS ANALYSIS & DESIGN

Day : Monday   Time : 10.00 AM TO 01.00 PM
Date : 22/04/2019   **S-2019-2090**   Max. Marks : 70

N.B.:

1) Q. No. 1 is **COMPULSORY**.
2) Attempt any **FOUR** questions from **Q. No. 2 to Q. No. 7**.
3) Figures to the right indicate **FULL** marks.

Q.1 The software is used by the manager of the newspaper agency and his **(14)** delivery persons. For each delivery person, the system must print each of the publications that has to be delivered each address. The customer usually subscribe to one or more newspapers or magazines. They are allowed to change their subscription by giving one week prior notice. The system should also print the information regarding who received what and summery information. At the end of each month, bills are printed by the system to be delivered to the customers. These bills should be calculated by the system automatically. The customer may request to stop the delivery of new papers when they go out. Customer usually pays their monthly dues either by cheque or cash. Once the cheque number or cash is entered in the system, the receipt for the customer should be printed. If any customer has any outstanding dues for one month a polite reminder message is printed.

  a) Draw context level DFD.
  b) Draw Entity Relationship diagram.

Q.2 **a)** "Every component of the system has its objective but system is always built **(07)** around central objective". Justify with suitable example.
    b) Differentiate between: **(07)**
      i) Open systems and closed systems
      ii) Physical systems and abstract systems

Q.3 **a)** What is need of feasibility study? Explain types of it. **(07)**
    b) Discuss the prototyping model of software development with its merits and **(07)** demerits.

Q.4 **a)** "System analyst acts as agent between developer and user". Comment. **(07)**
    b) Explain the following: **(07)**
      i) Record Review
      ii) On site observation

Q.5 **a)** Explain the concept of decision table with example. **(07)**
    b) Discuss the need of functional decomposition diagram with example. **(07)**

Q.6 **a)** What is Graphical user interface? Give the elements of it. **(07)**
    b) What do you mean by documentation? Give the importance of it in software **(07)** development.

Q.7 Write short notes on any **TWO** of the following: **(14)**

  a) User manual
  b) Version control
  c) Maintenance

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