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T.Y.B.B.A. (C.A.)

CA-601 : RECENT TRENDS IN INFORMATION TECHNOLOGY

(2019 Pattern) (Semester- VI)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

   1)   *All questions are compulsory.*

   2)   *Figures to the right indicate full marks.*

Q1) Attempt any EIGHT of the following (Out of TEN)   **[8×2=16]**

   a)   What is Apache kafka?

   b)   What is data warehouse?

   c)   What is data integration?

   d)   Write types of OLAP server.

   e)   Define natural language processing.

   f)   What is ETL?

   g)   List out steps of the KDD process.

   h)   Define data frame.

   i)   What is Deep Learning?

   j)   What are the types of data?

Q2) Attempt any FOUR of the following (Out of Five)   **[4×4=16]**

   a)   Explain data mining and knowledge discovery in database.

   b)   Explain different RDD operations in spark.

   c)   What is OLAP? Explain its operations.

   d)   Explain Hill climbing technique.

   e)   Explain applications of AI.

Q3) Attempt any FOUR of the following (Out of Five)   **[4×4=16]**

    a)   Explain data pre-processing.

    b)   Explain Association rule mining with example.

    c)   Explain data mining task.

    d)   What is data cleaning? Describe various method of data cleaning.

    e)   Explain BFS with example.

Q4) Attempt any FOUR of the following (Out of Five).   **[4×4=16]**

    a)   Explain water jug problem with example.

    b)   Describe the Architecture of data warehouse.

    c)   Explain the multidimensional data model.

    d)   Explain Depth First Search technique of artificial intelligence.

    e)   Explain FP tree algorithm.

Q5) Write a short note on Any TWO of the following (Out of THREE) **[2×3=6]**

    a)   'Means End Analysis' (MEA) in artificial intelligence.

    b)   MOLAP and HOLAP.

    c)   Use of AI in agriculture.

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