Total No. of Questions : 5]

SEAT No. :

PA-1983

[Total No. of Pages : 2

[5954]-601

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

RECENT TRENDS IN INFORMATION TECHNOLOGY

(2019 Pattern) (Semester - VI) (CA-601)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates :

1) ***Questions : Total Number of Questions are 5 (Five).***
2) ***Total Marks assigned: 70***
3) ***Time assigned: 2½ Hours.***

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

a) What is artificial intelligence?

b) Explain component of spark.

c) What is data mart?

d) List any two applications of data warehouse.

e) Define OLTP.

f) Define ETL tools.

g) Define Data mining.

h) What is a Ridge in artificial intelligence?

i) What is natural language processing?

j) Define Meta data.

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

a) Describe the Architecture of data warehouse.

b) Explain briefly the various components of spark.

c) Explain the three important artificial intelligence techniques.

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d) What are the disadvantages of Depth First Search?

e) What are the difference between OLTP and OLAP?

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

a) Explain the various search and control strategies in artificial intelligence.

b) Describe technique of data mining.

c) Explain any four uses of data warehouse.

d) What is the philosophy of artificial intelligence?

e) Write down the steps of KDD process.

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

a) What is a heuristic function?

b) What is multidimensional data model? Explain.

c) Define data cleaning. Describe various method of data cleaning.

d) Explain briefly with solution Missionaries and Cannibals Problem Statement.

e) Explain Graph mining in brief

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

a) State the 'Water Jug Problem' in artificial intelligence with the help of diagrams and propose a solution to the problem.

b) Data mining task.

c) ROLAP and HOLAP.

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