Total No. of Questions: 5]

P-1922

SEAT No.	:	
rm 4		 _

[Total No. Of Pages: 2

[6034]-601 T.Y.B.B.A.(C.A.)

Recent Trends in Information Technology (Semester-VI) (2019 Pattern) (CBCS)

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)

 $[2 \times 8 = 16]$

- a) What is OLTP?
- b) Define artificial intelligence.
- c) Define Data Frames.
- d) What is a Data Mart?
- e) Define OLAP.
- f) What is Robotics?
- g) Define spark.
- h) List any two applications of artificial intelligence.
- i) Which type of model is a Decision Tree?
- j) What is full form ETL?

Q2) Attempt any Four of the following (Out of Five)

 $[4 \times 4 = 16]$

- a) Differentiate between OLAP and OLTP
- b) Explain FP tree algorithm.
- c) Explain different RDD operations in spark.
- d) What are the disadvantages of 'Hill Climbing' in artificial intelligence?
- e) Explain briefly data mining task

Q3) Attempt any Four of the following (Out of Five)

 $[4 \times 4 = 16]$

- How is Apache Spark different from Map Reduce? a)
- What is data preprocessing? Explain b)
- Write down the algorithm of Breadth-First Search with is advantages. c)
- Explain the various search and control strategies in artificial intelligence. d)
- How does Spark work? Explain with the help of its Architecture? e)

Q4) Attempt any Four of the following (Out of Five)

 $[4 \times 4 = 16]$

- What is Data ware house? Sate any two advantages a)
- What is a heuristic function? b)
- What are the two advantages of 'Depth First Search' (DFS)? c)
- Explain the three important artificial intelligence techniques. d)
- Explain briefly State Space Representation of Water Jug Problem. e)

Q5) Write a short note on any Two of the following (Out of Three)

- Christian Control of the Control of 'Means End Analysis' (MEA) in artificial intelligence a)
- ETL Process b)
- MOLAP server



03) Attempt any Four of the following (Out of Five)

 $[4 \times 4 = 16]$

- How is Apache Spark different from Map Reduce? a)
- What is data preprocessing? Explain b)
- Write down the algorithm of Breadth-First Search with is advantages. c)
- Explain the various search and control strategies in artificial intelligence. d)
- How does Spark work? Explain with the help of its Architecture? e)

04) Attempt any Four of the following (Out of Five)

 $[4 \times 4 = 16]$

- What is Data ware house? Sate any two advantages. a)
- What is a heuristic function? b)
- What are the two advantages of 'Depth First Search' (DFS)? c)
- Explain the three important artificial intelligence techniques. d)
- Explain briefly State Space Representation of Water Jug Problem. e)

Q5) Write a short note on any Two of the following (Out of Three)

- CHICA. SALES 'Means End Analysis' (MEA) in artificial intelligence
- ETL Process
- MOLAP server

