Total No. of Questions : 5]

SEAT No. :

P2143

[Total No. of Pages : 2

[5803]-601

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

CA-601 : RECENT TRENDS IN INFORMATION TECHNOLOGY

(2019 CBCS 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 OLAP?

b) Define 'State Space' in artificial intelligence.

c) What is Data frame?

d) What is RDD?

e) What is Data Mart?

f) Define ETL tools.

g) What is a Plateau in artificialintelligence?

h) Define OLTP.

i) Which language is not supported by Spark?

j) Define Ridge.

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

a) What are components of spark? Explain.

b) Explain Architecture of Data Warehouse.

c) What is the philosophy of artificial intelligence?

d) Describe technique of data mining.

e) Write the advantages of Bidirectional Search.

P.T.O.

SPPUQuestionPapers.com

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

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

b) Explain any two Types of OLAP Servers.

c) Elaborate the Spark Installation Steps?

d) Explain Breadth First Search technique of artificial intelligence.

e) Write any four applications of Data Mining.

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

a) Differentiate between MOLAP and HOLAP

b) What is the Missionaries and Cannibals Problem Statement? Write its solution.

c) How is Apache Spark different from MapReduce?

d) What is Data warehouse? Describe any two applications in brief.

e) Write in detail the various blind search techniques in artificial intelligence.

Q5) Write a short notes on Any Two of the following (Out of Three) :**[2 × 3 = 6]**

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

b) Action

c) Snowflake Schema

⌘⌘⌘

SPPUQuestionPapers.com