

This question paper contains 2 printed pages]

**AA—58—2019**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (CS) (Sixth Semester) EXAMINATION**

**OCTOBER/NOVEMBER, 2019**

**(Revised Course)**

**COMPUTER SCIENCE**

**(S6.4.A)**

**[Data Mining (Elective)]**

**(Tuesday, 19-11-2019)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—80*

*N.B. :— (i) All questions are compulsory.*

*(ii) From question Nos. 2 to 4 solve either (A) and (B) or (C) and (D).*

*(iii) Figures to the right indicate full marks.*

*(iv) Assume your own data wherever necessary.*

1. Attempt the following questions : 20

(A) Explain the social implications of data mining.

(B) Write a short note on websearch engine with example.

(C) What is Neural Network ? Explain different types of Neural Network.

(D) What is clustering ? Explain.

2. (A) Explain data mining metrics. 8

(B) Explain the OLTP system with example. 7

*Or*

(C) Explain basic data mining tasks to search an information. 8

(D) What is dimension modeling ? Explain. 7

P.T.O.

3. (A) Write a short note on data mining techniques. 8  
(B) Explain role of statistical based algorithms in data mining. 7
- Or*
- (C) What is Decision Tree ? Explain with an example. 8  
(D) What is classification in data mining ? Explain distance based classification. 7
4. (A) What is clustering in data mining ? Explain clustering in large database. 8  
(B) What is association rule ? Explain parallel association rules. 7
- Or*
- (C) Explain hierarchical clustering algorithm. 8  
(D) Which are basic algorithms used in association rules ? Explain. 7
5. Write short notes on the following (any *three*) : 15
- (a) Distributed association rule  
(b) Partitional algorithm  
(c) Use of decision tree in classification  
(d) Online analytical processing system (ALAP)  
(e) Data mining Vs. Knowledge discovery.