Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

THIRD SEMESTER MASTER OF SCIENCE - M.Sc.(INFORMATION SCIENCE)
Data Mining and Warehousing [MIS 603]

Marks: 100   **Duration: 180 mins.**

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

1) Draw and explain the typical framework of a data warehouse (10)

2) List the major issues in datamining and describe it. (10)

3) What is ETL? Discuss it with proper explanation. (10)

4) Differentiate data warehouse versus datamining. (10)

5) Explain top down induction of decision tree with suitable example and extract the rules out of it (10)

6) Elaborate loss leader analysis in detain (10)

7) Find the frequent item set from the following transaction by using Apriori algorithm. (10)

Transaction ID	Item bought
T100	M O N K E Y
T200	D O N K E Y`
T300	M A K E
T400	M U C K Y
T500	C O O K I E

8) Solve the following transactions by using FP-Growth data mining algorithm and draw the FP-Growth tree. (10)

Transaction ID	Item bought
1	f a c d g m p
2	a b c f l m o
3	b f n o
4	b k c p

5   a f c l p m n

Where minimum support = 3

9)   Identify the outlier in a given set of data'   (10)
          2,4,4,5,7,9,11,11,13,14,41

10)   Briefly explain spatial datamining   (10)

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