1	FirstRanker.com					
	(Follo	owing Paper ID and Boll No. to be filled in your er.con Answer Books)				
Pap	per ID	: 110666 Roll No.				
		В. ТЕСН.				
	1	heory Examination (Semester-VI) 2015-16				
	D	ATA WAREHOUSING & DATA MINING				
Tim	e:3 h	Iours Max. Marks: 100				
Not	e: Atte	empt questions from all Sections as per directions.				
		Section-A				
1.	Atte	mpt all parts of this section. Answer in brief. [2×10=20]				
	(a)	Write some of the facts of the association rule mining.				
	(b)	Briefly explain the concept of Frequent Item sets and Closed Item sets.				
	(c)	Briefly explain important approaches to build the data warehouse.				
	(d)	Define KDD. Identify the phases in KDD process.				
	(e)	Why data warehouse is maintained separately from database?				

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3

ETL process.

criteria?

144, 145, 146, 147, 148, 148, 149, 149, 150, 150

Draw a box-and-whisker plot for the following data

126, 132, 138, 140, 141, 141, 142, 143, 144, 144,

set :

150, 154, 155, 158, 158

Also find the outliers.

Θ

explain now query performance can be improved by

cascading the operations.

Section-B

Section-B

Attempt any five questions from this section. (110×5–50)

Draw the 3-tier data warehouse architecture. Explain

the methods that can be used for selecting the splitting the steps for efficient processing of OLAP queries? Explain the various types of OLAP servers. What are Write the algorithm of decision tree induction. What are

Section-C

Attempt any two questions from this section. (15×2=301)

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is {STOLEN}. Training data is given in the following table where class label Origin = 'DOMESTIC'} using Naive Bayesian classification. Classify the tuple X= {Color = 'RED', Type = 'SUV'

Yellow	Yellow	Rod	Red	Red	Color
Sports	Sports	Sports	Sports	Sports	Type
Imported	Domestic	Domestic	Domestic	Domestic	Origin
Yes	No	Yes	No	Yes	Stolen?

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Yes

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Yellow	SU W ww.Fi	rst Rapol ited	No ww	w.First	
Yellow	SUV	Imported	Yes]	
Yellow	SUV	Domestic	No		
Red	SUV	Imported	No		
Red	Sports	Imported	Yes]	

- (i) Describe the difference between the following approaches for the integration of data mining system with database or data warehouse systems: no coupling, loose coupling and semi tight coupling.
 - (ii) Define and describe the basic similarities and differences among ROLAP, MOEAP and HOLAP.
- Explain Chi-square test method. Show using chi-square test that gender and preferred reading are independent or not from given table. (Given are the observed counts).

	Male	Female	Total
Fiction	250	200	450
Non-Fiction	50	1000	1050
Total	300	1200	1500

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