

**BRACH: CSE**

**IES COLLEGE OF TECHNOLOGY, BHOPAL**

**M. TECH. (3<sup>RD</sup> SEM) Assignment -1**

**Advanced Mathematics**

**(MCSE-301(A) (UNIT 1 TO 2.5))**

- Note:** 1. Question should be written in plain A-4 Size Paper.  
2. Minimum 300 Word Limit for each Question.  
3. Assignment will submit in stick file.

**DATE OF ASSIGN: 17/10/2014**

**DATE OF SUBMISSION: 7/11/2014**

1	What do you understand by data mining and knowledge discovery? Explain how the evolution of database technology led to data mining. [june-2014]
2	What do you understand by association rule mining? [june-2013]
3	Differentiate between K-means and K-Medoids Partitioning methods. [june-2014]
4	What are the different phases of BIRCH? How are they important in clustering? [dec-2013]

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**Advance Data Structure**

**(MCSE-302(A) (UNIT 1 TO 2.5))**

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1	Explain how key distribution is achieved in symmetric key encryption. [june-2014]
2	List out the participants of SET System. And explain in detail. [june-2013]
3	Explain about the single round of DES algorithm. [june-2014]
4	Define message authentication. Explain Message Authentication Code(MAC) and one way Hash Function? [dec-2013]

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1	What do you understand by association rule mining? [june-2014]
2	Write Short Notes on:- [june-2013] (a) Feature extraction and Motion Analysis.

	(b) Spatial Trends (c) Rock Algorithm
3	What is the difference between similarity and possibility approaches for fuzzy databases? [dec-2013]
4	Explain supervised and unsupervised training methods of artificial neural networks. [june-2014]
5	Summarize the role of data mining in web and sequence mining. [june-2014]

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1	Explain SHA-512? [june-2014]
2	In RSA given $p=19$ , $q=23$ and $e=3$ , find all its parameters and explain the method by using suitable example. [june-2014]
3	Explain briefly about Diffie Hellman key exchange algorithm with its pros and cons. [dec-2013]
4	Define intruder. Name three different classes of intruders. [june-2013]
5	Explain about viruses in detail. [june-2014]