BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

	CLASS:	(END SEMESTER EXAMINATION) MTECH/PRE-PHD	SEMESTER: II/NA	
	BRANCH		SESSION: SP/19	
	TIME:	SUBJECT: IT516 DATA MINING AND DATA ANALYSIS 3 Hours	FULL MARKS: 50	
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question pa 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examina 				
	Q.1(a) Q.1(b)	What is data cube? Give the uses of multifeature cubes? What is an OLAP database? Compare OLTP and OLAP systems.		[5] [5]
	Q.2(a) Q.2(b)	5 5		[5] [5]
	Q.3(a) Q.3(b)			[5] [5]
	Q.4(a) Q.4(b)	What do you know about association rule mining? List two interesting measures for association rules. What is ensemble learning? Explain standard strategies to make ensemble learner.		[5] [5]
	Q.5(a)	.5(a) List the requirements of clustering in data mining. What is the objective function of the K-me algorithm?		[5]
	Q.5(b)	What is dimension? Define <i>outliers</i> . List various outlier detection approaches.		[5]

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