(i)	Pri	nted Pages : 3	Rol Rol	l No
(ii)	Qu	estions : 9	Sub. C	ode: 3 6 1 4
			Exam. C	ode: 0 4 6 0
		M.C. T.C.		
		MI.SC. Inioi	rmation Technolog (2042)	y 2 ⁸⁰ Semester
A	DVA	NCED DATA		MMING AND MySQL
			Paper—MS-60	
Tim	e All	owed : Three	Hours]	[Maximum Marks: 80
Not	e :—		question each from Question No. 9.	n Units I, II, III and IV and
		*	UNIT—I	*
1.	(a)		IS. Explain which a Sover simple datab	re the relative advantages of ases.
	(b)		arious relationship model? Exemplify.	os represented in Entity-
2.	(a)		Model. Explain throi Database schema an	ugh example its various types d instance.
	(b)	What is depe	ndency? Explain its	various types with examples.
			UNIT—II	
3.	(a)	Define relations.	onal calculus. Explai	in its types along with various 8
	(b)	What is dea	dlock? Explain va	rious ways to recover it. 8
361	4/PC	Q-16701	s : 1	[Turn over

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(a)	Explain the various operations of Projection, Selection and					
	Cartesian Product. 8					
(b)	Define concurrency. Explain various techniques to control it.					
	8					
UNIT—III						
(a)	Why MySQL was introduced? Explain its various					
	features. 8					
(b)	What is the importance of Keys for making queries and					
•,	subqueries? Explain various keys also.					
(a)	How are the tables Altered and Indexed ? Justify through					
	examples. 8					
(b)	Explain and exemplify various MySQL data-types. 8					
	UNIT—IV					
(a)	Draw comparison between Datawarehouse and DBMS					
	Metadata after defining the importance of datawarehouses.					
	8					
(b)	How is A priori algorithm implemented for Association rule					
	mining? Explain. 8					
(a)	Explain various features of datawarehouses. Also explain how					
	are datawarehouses built?					
(b)	What is classification? Explain decision tree induction in this					
	context. 8					
	(b) (a) (b) (a) (b) (a)					

(Compulsory)

- 9. Explain:
 - (a) Data mining Applications
 - (b) Metadata
 - (c) Sequences
 - (d) Views
 - (e) Granularity
 - (f) BCNF
 - (g) Relational Algebra
 - (h) E-R Model.