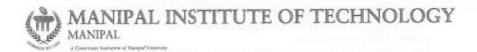
Dec No		
Reg. No.		



## I SEMESTER M.C.A.

## END SEMESTER EXAMINATIONS, NOV 2017

SUBJECT: ADVANCED DATABASE MANAGEMENT SYSTEMS [MCA 4104]

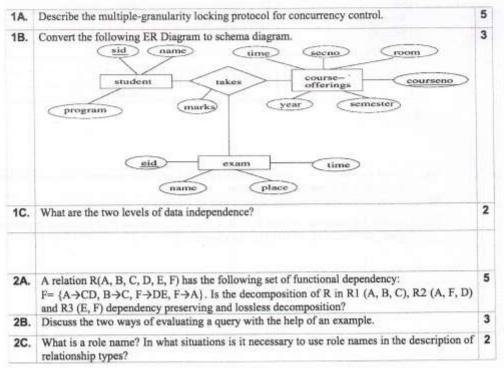
## REVISED CREDIT SYSTEM (25/11/2017)

Time: 3 Hours

MAX. MARKS: 50

## Instructions to Candidates:

- Answer ALL the questions.
- Missing data may be suitable assumed.



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3A.	Book(ISBN, Book_ Publisher (P_id, Pna Author (A_id, Anar Author_Book (A_id) On the basis of this a) Retrieve the city b) Retrieve the nar c) Retrieve the title d) Retrieve the IS book category.	relational schema, write the to phone and url of the author ne, address of all the publishes and price of all the textbook BN, title and price of the b	Email_id) ) following queries in relational algebra: whose name is John. ers located in New York state. with a page count greater than 600. ooks belonging to either novel or language	5	
3B.	<ul> <li>e) Retrieve the Id, name, address and phone of publishers publishing novels.</li> <li>Explain the inference rules for functional dependencies.</li> </ul>				
3C.					
4A. 4B.					
4C.					
	T8	T9	T10	2	
	Read(A)				
	Read(8)				
	Write(A)				
		Read(A)			
		Write(A)	B 1743		
			Read(A)	-	
5A.	the algorithm in terr	ns of block transfers	he help of an example. Also analyze the cos	t 5	
5B.	Explain the two phase locking protocol with an example.				
5C.	Consider the relational schema R(A, B, C, D, E, G) with set F of functional dependencies $\{A\rightarrow B, BC\rightarrow D, D\rightarrow E, D\rightarrow G\}$ . Find the closure of F.				

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