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Pa	per Co	de & Roll No.	216 to be filled	Printed Pages: 3 in your Answer Book
	Roll N	and the second		
		B.Tech	. (IV - S	Sem.)
	Eve	en Semeste	r Examin	ation - 2016
D	ATA	BASE MA	NAGEM	ENT SYSTEM
Time	:3 Ho	urs]	[N	Maximum Marks :100]
Note:	Atten		ons. Each	question carries equal
Q1.	Attempt any four parts:-			(5×4=20)
	(a)	What are the processing s		ferences between a file a DBMS?
	(b)			e between logical data ical data independence?
	(c)	What are the	e roles of D	atabase Administrator?
	(d)	Explain attri	bute and pr	imary key.
	(e)	Explain DB	MS archite	oture.
	(0)		vi5 arcinico	cture.

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Q2.	Attempt any four parts:-		(5×4=20)			
	(a)	What is the difference between specialization and generalization with respect to database?				
	(b)	Draw the ER-diagram o	f the registration particular course.			
	(c)	Explain the concept of mapping constraints.				
	(d)	Explain ER model with example.				
	(e)	What is generalization and relationship?				
Q3.	Atter	mpt any two parts:-	(10×2=20)			
	(a)	What do you understand by serializability of schedules? Explain with suitable example.				
	(b)	What are locks? Differentiate shared mode and exclusive mode locks.				
	(c)	Explain loss less join decor decomposition and function	mposition, loss join			

Q4. Attempt any two parts:- $(10\times2=20)$

 (a) What are Normal forms and also explain the motivation behind normal forms.

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- (b) Explain the concept of functional dependency with suitable example.
- (c) Explain the concept of deadlock handling.
- Q5. Attempt any two parts:- (10×2=20)
 - (a) What do you mean by transaction? What are its ACID properties?
 - (b) Explain validation based protocol.
 - (c) List various locking techniques for concurrency control.

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