	210	210	210	210	210	210	
F	Regi	stration No :					
Tot	al ₂ Nu	umber of Pages : 02	210	210	210	²¹⁰ B	.Teo
^	N ISW	ver Question No.1 (Pa	DĂTA E BRA Tim Max Q.C art-1) ŵhich is fro	BASE SYSTEN NCH : CSE e : 3 Hours Marks : 100 ODE : F957 compulsory, a om Part-III.		Part-II and any t	
		C	-	Part- I			_
Q1	a)	Short Answer Type Q What is DBMS?	uestions (Answ	ver All-10)		(2	2 x 1
	b) c) d) e)	What are different type What do you mean by o What is the difference b Write the syntax of que	open database o between primary ery representation	connectivity? key and candid	210 ate key?	210	
	f) g)	What is functional Depe What is the full form of		application.			
	h)	Discuss the different tra					
	i) j)	Define data Farming. What is OLAP?	010	010	0.4.0	0.40	
	210	210	210	210 Part- II	210	210	
Q2	2)	Focused-Short Answe	••	ons- (Answer A			6 x 8
	a)	Consider the followin (suppliers(Sno)			ipplier-parts-projec		
		supply parts(Pno) to pr Supplier(Sno,Sname,da		h place)			
	210	Parts(Pno,Pname,color	r,weight,city)	210	210	210	
	210	Shipment(Sno,Pno,Jno	,qty)				
		Draw the E-R model. A therelationships in the a				a aegrees of	
	b)	Consider the database a. Create a Supplier T	•	n Q a), write que	ries/statements in	SQL to:	
		b. Retrieve the minimu	um quantity supp				
	210	c. Add a new constraind. Retrieve the supplie				itsar. 210	
	c)	e. Display the total qty Normalize the following					
	- 1	Student (course_cod Hrly_rate,Total_ Hrs) A 3NF. How thesecan	e, CName, T Also, explain the be rectified. [As	eacherName, delete and upda ssumptions: eac	ate anomalies of 1 ch student studie	NF, 2NF and s number of	
	d)	courses, Only one sys Course name and stud	ent namerespec		ble. 210	210	
	<u>d)</u> e)	courses, Only one sys Course name and stud	ent namerespec IL document with	n suitable examp		²¹⁰ n, any One	

210		210	210	210	210	210	210	210				
		g) h)	What is Relational Calcu anddomain relational calc Discuss briefly about mot	culus? Explain	with the help of s	suitable examples.						
		i)	What are Data warehout	uses'? Explai	n the meaning	of Extraction, Tra	ansformation					
210		j) 210	andLoad in perspective of Data warehouses. What is meant by the concurrent execution of Database Transactions in a multi usersystem? Discuss the different problems that can occur due to concurrent execution oftransactions. Explain with the help of an example the terms Serial – Schedule andSerializable Schedule.									
		k)	What do you mean by Normalization? Explain the first three normal forms along with BCNF and the anomalies that exist in these normal forms with the help of suitable examples.									
		I)	Discuss how Database S	ystems differs	from File System	1.						
210		210	210	210	210	210	210	210				
			Long Answer Type Que	stions (Answ	Part-III	of Four)						
	Q3		What do you mean by C toaccess data in the data	DBC and JD	BC? Explain with		xample how	(16)				
210	Q4	210	What is the difference be	tweencrelation	al algebra and re	lational calculus?	210	(16) 210				
	Q5		Write short note on follow a) Integrity constraints b) Scripting c) Object Relational Data	-				(16)				
210	Q6	210	Explain the terms : a) Data warehouse b) Spatial and Geographi c) Temporal Databases d) NoSQL databases	²¹⁰ cal databases	210	210	210	(16) 210				
210		210	210	210	210	210	210	210				
210		210	210	210	210	210	210	210				
210		210	210	210	210	210	210	210				