Tota	l No	lo. of Questions : 4] SEAT No. :	
PE40		[6579]-342 [Total No. of Pa	ges : 2
		T.E. (Electronics /E & TC/(Electronics &	
	(Communication-Advanced Communication Technology)	
		(Insem) DATABASE MANAGEMENT	
		(2019 Pattern) (Semester - I) (304183)	
an:			. 20
		1 Hour] [Max. Mar] tions to the candidates:	ts:30
Instr	rucu 1)		
	2)		
	<i>3</i>)		
	<i>4</i>)	Assume suitable data, if necessary.	
Q1)	a)	Define data abstraction. Explain different levels of data abstraction	n. [5]
	b)	Draw overall structure of database management system and explain processor in detail.	query [5]
	c)	Explain any five applications of database management system. OR	[5]
Q2)	a)	Compare between strong entity and weak entity.	[5]
	b)	Construct an ER diagram of customer account relationship. Customer tity with attributes of S#, customer name, street, customer city account entity with attributes account no, and balance. The cust account relationship with date attributes.	, and
	c)	suitable examples.	with
		i) Selection ii) Projection iii) intersection	
		ii) Projection	
		iii) intersection	[5]

Q3) a) What is mean by domain integrity constraints? Explain any three domain integrity constraints with suitable examples. [5]

b) Differentiate between primary key and foreign key. [5]

c) Enlist any five features of good relational design. [5]

OR

- What is mean by functional dependency? Explain multi values and partial **Q4**) a) functional dependency with suitable examples. [5]
 - Consider following schema, check whether it is in 3NF, if not justify and b) propose the schema in 3NF. [5]

Students_Details (Stud_id, Stud_name, Zip, City)

Study the relation given below Student_project and state what level of c) normalization can be achieved and normalize it up to that level. [5]

Stud_id	Proj_id	Stud_name	Proj_name
ET101	ETP1	Rohit	Image Processing
ET102	ETP2	Priya	RFID
ET103	ЕТР3	Kishor	Home Automation
ET104	ETP4	Kalyani	Green House Automation

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