## B.Tech. SEM -V (Computer) 2014 Course (CBCS): WINTER - 2018 SUBJECT-DATABASE MANAGEMENT SYSTEM

-		rsday 11/2018	VV-2010-2372	Time: 02.30 PM Max. Marks: 60	TO 05.30 P
N.B.:	1) 2) 3) 4)	Figu Drav	questions are COMPULSORY. res to the right indicate FULL marks. v neat diagrams WHEREVER necessary. ume suitable data, if necessary.		
<b>).1</b>	a) b)	Explain 3 Distingui independ	· · · · · · · · · · · · · · · · · · ·	Logical data	(05) (05)
			OR		
<b>2.1</b>		Illustrate	objectives of DBMS with suitable example.		(10)
).2		Constructupto 3NF	t an E-R model for recruitment management system & r	normalize it	(10)
			OR		
2.2			the relation R (ABCDEF) with the following functiona C, $C \rightarrow D$ , $B \rightarrow E$ What are different keys of Relation.  Normalize the relation upto 3NF.	l dependencies:	(10)
2.3		Illustrate i) ii) iii) iv)	following terms with suitable example: Primary key Super key Foreign key Candidate key.		(10)
			OR		
2.3	a) b)	Consider Orders (o Customer Salesman	explain in detail all aggregate function with suitable example the following schema:  ord_no, purch_amt, ord_date, cust_id, salesman_id)  or (cust_id, cust_name, city, grade, salesman_id)  or (salesman_id, name, city, commission).  Output query for following:  Find the average purchase amount of all orders.  Find maximum purchase amount of all the orders.  Select the highest grade for each of the cities of the count the number of salesmen for whom city is specified.	ustomers.	(05) (05)
2.4	a)	State & e i) ii) iii)	explain the following with examples:  DDL  DML  DCL.		(05)

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	b)	What is Subquery & Explain it's type with suitable example.	(05)	
		OR		
Q.4		Consider the following schema:  Movie (mov_id, mov_title, mov_year, mov_time, mov_lang, mov_dt_rel, mov_rel_country)  Actor (act_id, act_fname, act_lname, act_gender)  Reviewer (rev_id, rev_name)  Rating (mov_id, rev_id, rev_stars, num_of_ratings).  Write SQL query for following:  i) Find the name & year of the movies.  ii) Find the year when the movie American Beauty released.  iii) Return the name of all reviewers & name of movies together in a single list.  iv) Find the name of all reviewers who have rated 7 or more stars to their ratings.  v) Find the ID number for the actor whose first name is 'Woody' & the last name Is 'Allen'.		
Q.5	a) b)	Explain different issues in Query processing.		
		OR		
Q.5		Explain in detail:  i) View Serializability  ii) Conflict Serializability	(10)	
Q.6	a) b)	Discuss in detail various components of Data-warehouse with suitable diagram. Write short note on: Geographical Database.		
		OR		
Q.6		Discuss in detail difference between structured & unstructured data. Also explain different types of NoSQL databases.	(10)	

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