(Please write your E	Enrollment Number
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Enrollment No	
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End-Term Examination- ONLINE MODE (CBCS/Non-CBCS)(SUBJECTIVE TYPE)

Su	bject Code: Subject:	
Tin	me: 1 Hour 15 minutes Subject: < DBMS >	
No	Ote: Q. 1 is compulsory. Attempt any one question from the rest.	um Marks: 3
Q1	d die question from the rest.	
		(5*3=15
	(a) The following functional dependencies are given: AB -> CB -+ T	
	(a) The following functional dependencies are given: AB \rightarrow CD, AF \rightarrow D, DE \rightarrow F, C \rightarrow C	$5, F \rightarrow E, G \rightarrow$
	Verify the following and state if true or false.	
	i. {CF}+ = {ACDEFG}	
	ii. {AE }+ = {ACDEFG}	
	What is a candidate key for the relation R(A, B, C, D, E, F, G) (b) For the relation R(A, B, C, D) and FD, an	
	(b) For the relation R (A, B, C, D) and FD set: $\{A \rightarrow B, A \rightarrow BC, C \rightarrow D\}$, can we derive	
	i. $A \rightarrow C$	
	ii. B → D	
	i. BC → D	
- 1.5	(c) Show that A→ B is a relationship A:B::N:1	
Q2	19	77.75 45
	(a) Consider three transactions T1, T2 and T3 with timestamp in the order T1 < T2 < T3	(7.5+7.5= 15)
	two resources A and B. What is the result of each of the following schedules	. There are
	the result of the rollowing schedules	
	i. r1(A); r2(A); r3(A); w1(B); w2(B); w3(B);	
	ii. r1(A); w3(A); T3 commit; r2(B); w2(A);	
	iii. r1(A); w2(A); w3(A); r2(A);	
	(a) Draw a dependency graph for the schedule r1(A); w2(A); r2(A); w3(A); and determine	
	serializable. Apply 2PL to the schedule and use the "total allocation" scheme to pre	ne if it is
	deadlock.	event
23	Consider the following schema of a car renting agency	7.5+7.5= 15)
		7.3+7.3= 13)
	Vehicle(Vno, Vmake, Vtype, Vprice)	
	Delivor/Dag Hanny	
	Driver(Dno. License Year, Experience, State)	
	Drives(Dno, Vno, Date, Start time, End Time)	
	There are two proposals to define primary keys for Vehicle (a) Vno, Vmake and (b) Vno.	
		. Which one
116	a. Write SQL queries to do the following	
	i. Find all vehicles whose price is greater than 2 lakhs and order their make in accounts	
1334	their make in ascending order	nese by
	The masternal graph	