Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

## DIPLOMA ENGINEERING - SEMESTER - IV • EXAMINATION - WINTER 2016

Subject Code: 3340701		Date:17-11-2016	
St	ıbject Na	me: Advanced Database Management System	
		0 PM TO 5 :00 PM	Total Marks: 70
In	structions		
		tempt all questions. ake Suitable assumptions wherever necessary.	
	3. Fi	gures to the right indicate full marks.	
		e of programmable & Communication aids are strictly prohi	bited.
		e of only simple calculator is permitted in Mathematics.  In a supplied the supplied of the su	
<b>Q.1</b>		Answer any seven out of ten. દશમાંથી ક્રોઇપણ સાતના જવ	ત્રાબ આપો. 14
	1.	Define: Decomposition, functional Dependency	
	٩.	વ્યાખ્યા આપી: Decomposition, functional Dependency	
	2.	Define: Trivial dependency, Nontrivial dependency	
	۶.	વ્યાખ્યા આપી: Trivial dependency, Nontrivial dependency	
	3.	What is normalization? List out various normal forms.	
	3.	Normalization એટલે શું? normal forms ની યાદી બનાવો.	
	4.	Define: Transaction, Concurrency control	
	٧.	વ્યાખ્યા આપો: Transaction, Concurrency control	
	5.	Define: Schedule, Serializable Schedule	
	ч.	વ્યાખ્યા આપી: Schedule, Serializable Schedule	
	6.	Write full form: DCL, TCL	
	۶.	પુર્ણ નામ લખો: DCL, TCL	
	7.	Define: View, Index	
	૭.	વ્યાખ્યા આપો: View, Index	
	8.	Define: Sequences, Synonyms	
	۷.	વ્યાખ્યા આપી: Sequences, Synonyms	
	9.	Define: Function, Procedures	
	E.	વ્યાખ્યા આપી: Function, Procedures	
	10.	Define: Packages, Triggers	
	٩٥.	વ્યાખ્યા આપો: Packages, Triggers	
Q.2	(a)	Explain lossy join decomposition with example.	03
ક્ષ. ર	(અ)	lossy join decomposition ઉદાહરણ આપી સમજાવો.	03
		OR	
	(a)	Explain lossless join decomposition with example.	03
	(અ <b>)</b>	Lossless join decomposition ઉદાહરણ આપી સમજાવો.	03
	(b)	Explain dependency preserving decomposition with examp	
	(બ <b>)</b>	Dependency preserving decomposition ઉદાહરણ આપી સમ	ાજાવો. 03

	(b)	Write algorithm to find redundant functional dependency.	03
	(બ <b>)</b>	Redundant functional dependency શોધવાનો અલગોરિધમ લખો.	03
	(c)	Write short note: functional dependency	04
	(٤ <b>)</b>	ટુંકનોંધ લખો : functional dependency	٥٨
		OR	
	(c)	Explain full functional dependency with example.	04
	( <b>8)</b>	Full functional dependency ઉદાહરણ આપી સમજાવો.	08
	(d)	Write short note: 1NF	04
	(S)	ટુંકનોંધ લખો : 1NF	08
	(1)	OR	0.4
	(d)	Write short note: Armstrong's Axioms for functional dependency.	04
	(S)	ટુંકનોંધ લખો : Armstrong's Axioms for functional dependency.	OX
Q.3	(a)	Explain COMMIT command.	03
પ્રશ્ન. 3	(અ)	COMMIT command સમજાવો.	03
		OR	
	(a)	Explain ROLLBACK & SAVEPOINT command.	03
	(અ <b>)</b>	ROLLBACK & SAVEPOINT command સમજાવી.	03
	(b)	Explain GRANT command by example.	03
	(બ <b>)</b>	GRANT command ઉદાહરણ આપી સમજાવો.	03
		OR	
	(b)	Explain REVOKE command by example.	03
	(બ)	REVOKE command ઉદાહરણ આપી સમજાવો.	03
	(c)	Write short note: 2 NF	04
	( <b>§)</b>	ટુંકનોંધ લખો : 2 NF	OA
	(-)	OR	0.4
	(c)	Write short note: 2 PL ટુંકનોંધ લખો : 2 PL	04
	( <b>8</b> )		08
	(d)	Write short note: 3NF	04
	(S)	ટુંકનોંધ લખો : 3 NF	OA
	(d)	OR What is deadlock? How to control deadlock.	04
	(S)	Deadlock એટલે શું? Deadlock ને કંટ્રોલ કઇ રીતે કરી શકાય.	08
	(0)	Deadlock stock of Deadlock st Societ 30 th total stock.	00
Q.4	(a)	Write short note: Implicit locks	03
પ્રશ્ન. ૪	(અ)	ટુંકનોંધ લખો : Implicit locks	03
		OR	
	(a)	Write short note: Explicit locks	03
	(અ <b>)</b>	ટુંકનોંધ લખો : Explicit locks	03
	(b)	Explain advantages of view with example.	04
	(બ)	View ના ફાયદાઓ ઉદાહરણ આપી સમજાવો.	OA
	(1.1	OR	0.4
	(b)	How sequence can be created explain by example.	04
	(બ)	Sequence કઇ રીતે create કરી શકાય ઉદાહરણ આપી સમજાવો.	08
	(c)	Write PL/SQL program to reverse a given string.	07

	(8)	આપેલી String ને reverse કરવાનો PL/SQL પ્રોગ્રામ લખો.	0.9
Q.5 પ્રક્ષ. પ	(a) ( <b>ഡ)</b>	How to handle named exception explain by example. Named exception કઈ રીતે handle થાય ઉદાહરણ આપી સમજાવો.	<b>04</b> 08
	(b)	Write short note: Parameterized cursor	04
	(બ <b>)</b>	ટુંકનોંધ લખો : Parameterized cursor	OA
	(c)	Write short note: PL/SQL data types	03
	(8)	ટુંકનોંધ લખો : PL/SQL data types	03
	(d)	Explain GOTO statement by example.	03
	(S)	GOTO statement ઉદાહરણ આપી સમજાવો.	03

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