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	324 Ho		70	Marks	Seat	No.								
Instructions – (1)				All Questions are Compulsory.										
			(2)	Answer each	next main	Ques	stio	n o	n a	ne	w j	pag	e.	
			(3)	Illustrate you necessary.	r answers v	with 1	nea	t sk	tetc	hes	wł	nere	ever	
			(4)	Figures to th	e right indi	icate	full	l m	arks	5.				
			(5)	Assume suita	ble data, if	nece	essa	ıry.						
			(6)	Mobile Phone Communication	on devices									
				Lixammation	11411.								Ma	rks
1.		Attempt	t any	<b><u>FIVE</u></b> of the	following:	:								10
	a)	List any	four	commands o	f DDL.									
	b)	Define t	erms	:										
		i) Re	lation											
		ii) Ca	rdinal	ity										
	c)	Enlist A	CID	properties.										
	d)	List type	es of	failures.										
<ul><li>e) List string fu</li><li>f) Define sequer</li></ul>			ng fu	nctions.										
			seque	nce.										
	g)	List typ	es of	exceptions in	PL/SQL.									
2.		Attempt	t any	THREE of t	the followi	ng:								12
	a)	Describe	NO	Γ NULL constraint with syntax and suitable example.										
	b) List types of operators in SQL and explain logical operation						rato	rs.						
	c)	Describe	PL/S	SQL block str	ucture.									
	d)	Describe	simj	ple and compo	osite index	with	sui	itab	le e	exar	nple	e.	P.7	Г.О.

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3.		Attempt any <u>THREE</u> of the following:	12		
	a)	Explain transaction state diagram with neat diagram.			
	b)	Consider following schema :			
		emp(empno, ename, job, deptno)			
		Write SQL queries for the following :			
		i) Create synonym el for emp table.			
		ii) Drop synonym el.			
	c)	Explain set operators with suitable examples.			
	d)	Differentiate between Truncate and Delete.			
4.		Attempt any <u>THREE</u> of the following:	12		
	a)	Consider following schema :			
		student(rollno, sname, dob, loc)			
		Write SQL queries for the following :			
		i) Display students who stay at Mumbai.			
		ii) Change the location of Anita to Pune.			
		iii) Display students whose name starts with B.			
		iv) Display sname and dob for all students.			
	b)	Describe various causes of database failures.			
	c)	Write steps to create, execute and delete a PL/SQL function.			
	d)	Define view. Explain advantages of using a view.			
	e)	Write SQL statement to perform following operation :			
		i) Create synonym as "Stud_Synon" on table name "Student".			
		ii) Create unique index on "Student" table, use S_id as index attribute.			

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## Attempt any <u>TWO</u> of the following: a) Consider following schema employee(empno, ename, job, deptno, sal, hiredate, loc) Write SQL queries for the following : i) Create table employee with above mentioned attributes. ii) Display employees whose salary is in the range 10000 to 20000

- iii) Display employees who stay at Nashik.
- b) Write SQL commands for the following schema Student(rollno, sname, loc, dob)
  - i) Create a view called St taking columns rollno, sname.
  - ii) Create a view called SI for students staying at Pune.
  - iii) Drop view named S1.
- c) Write PL/SQL program to create a function name area\_circle to calculate area of circle and also have another PL/SQL code to call this function.

### 6. Attempt any <u>TWO</u> of the following:

- a) Explain Grant and Revoke commands with syntax and suitable example.
- b) Consider following schema : emp(empno, empname, job, salary, deptno, loc)
   Write SOL
  - Write SQL commands for the following statements.
  - i) Display all employee names in lower case.
  - ii) Display total number of employees.
  - iii) Display average salary of each department.
  - iv) Display details of employee in descending order of salary.
  - v) Display employee names staying at Mumbai having salary 10000.
  - vi) Display names of employee who are staying either at Mumbai or Pune.
- c) Write PL/SQL code for the following :
  - i) Print odd numbers from 1 to 20.
  - ii) Print factorial of number 5.

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