		(2½ Hours)	[Total Marks: 75]
N.B.	1) All questions are compulsory. 2) Figures to the right indicate marks		
		2) Figures to the right indicate marks.3) Illustrations, in-depth answers and diagrams will be appreciated.	
		fixing of sub-questions is not allowed.	
1.	Attempt All (Each of 5 Marks):		(15)
(a)	Multiple Choice Questions		
	1)	The difference between rollback and commit is	
		A commit saves transaction, rollback undoes it	
		B. commit undoes the transaction, and rollback saves it	
		C. commit loads transaction and rollback saves it	
		D. none of the above	
	2)	PL/SQL is a procedural language that has following advantages -	
		A. Integration with database	
		B. Better performance	\$5.50 3.70, 40,
		C. Support for Transaction Processing	
		D. All of the mentioned above	
	3)	SQL statements that must end transaction are of type	
		A. 2 types	
		B. 3 types	
		C. 4 types	
		D. 5 types	
,	4)	Term that is known to commit current transaction, is	
6		A. Rollback work	
		B. Commit work	
		C. Trace work	
Y Y C		D. Transit work	
	5)	A term that consists of a sequence of query and/or update statem	nents, is known
		as - c	
		A. Transactions	
		B. Data commit	
		C. Data rollback	
67.67.5°		D. Data automation	
5.00	J. 2. 7.	XXXXX	

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- (b) Fill in the blanks (currval, drop index, Binary large object, rowid, ||)
 - 1. In sequence, the recent value is seen by -----
 - **2.** Data type BLOB stands for
 - 3. To drop an index we use ----- statement.
 - **4.** Compound symbols...... are use in dbms_output_put_line as a separator.
 - **5.** In Sequence the current value is seen by
- (c) Answer in 1-2 sentences
 - 1. How to declare a function?
 - 2. Give an example where : old and :new are used.
 - 3. What is the use of EXIT statement?
 - 4. Define views.
 - 5. Define Primary index.

2. Attempt the following (Any THREE)

(15)

- (a) Generate the trigger to generate the primary key values for product_id in the products (prod_id, pname, p_price) table and display the values in the table.
- (b) How to create an index? Explain with an example.
- (c) Employees of the testing department in the Perpetual Systems does testing of the software and result is taken as test-id, test-name, date_of_testing, test_result. Execute the procedure to insert the values in the table "test_specifications".
- (d) Explain heap file organization.
- (e) How to create and execute stored procedure?
- (f) Write a short note on using DDL statements in trigger by giving an example

3. Attempt the following (Any THREE)

(15)

- (a) Write a PL/SQL block that will accept an account number from the user, check if the users balance is less than minimum balance, then deduct Rs. 1000/- from the balance. Refer the table accts(acctno, current_balance, updt_balance)
- (b) Explain declaration and assignment in PL/SQL along with explanation of Begin block.
- (c) Explain PL/SQL data types.
- (d) Explain case statement with an example.
- (e) Write a PL/SQL block that calculate the area of circle for a value of radius varying from 3 to 7. Store the radius and the corresponding values of calculated area in an empty table name areas (radius, area).
- (f) Explain GOTO and NULL statement with an example.

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4. Attempt the following (Any THREE)

(15)

- (a) Define and explain ACID.
- (b) Explain two phase commit protocol.
- (c) What is lock? Explain it along with its types.
- (d) Differentiate between serial schedule and serializable schedule with example.
- (e) Explain shadow paging and log based recovery scheme.
- (f) Describe Aries Algorithm.

5. Attempt the following (Any THREE)

(15)

- (a) Create table simple interest (p_amt, no_of_yr, rate_int, simp_int) calculate simple interest and update table using for loop for 3 values.
- (b) Explain the concept of transaction.
- (c) Describe Features of PL/SQL.
- (d) Explain cluster file organization.
- (e) Define indexes? Explain with an example creating and dropping of indexes.

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