(2½ Hours)

Q.P. Code: 23721

[Total Marks: 75]

<b>Q. 1</b> (a)	Attempt All(Each of 5Marks) Choose the Correct Alternative		(15
	i	Triggers enabled or disabled	19 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		a] Can be b] Cannot be	Soft, to
		c] Ought to be d] Always	
	ii iii	combines the data manipulating power of SQL with the data processing power of Procedural languages.  a] PL/SQL  b] SQL  c] Advanced SQL  d] PQL  Which of the following is not a property of transactions?  a] Atomicity  b] Concurrency	
		c] Isolation d] Durability	
	iv v	A transaction completes its execution is said to be a] Saved b] Loaded c] Rolled d] Committed Assume transaction A holds a shared lock R. If transaction B also requests	
		for a shared lock on R.	
	Ŝ	a] It will result in a deadlock situation	
189 S		b] It will immediately be rejected	
	86	c] It will immediately be granted	
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		d] It will be granted as soon as it is released by A	
(b)	Fil (D Po i 7	Il in the blanks by selecting the correct option from the pool given:  ROP SEQUENCE sequence_name, Data Control Language, Cursors, inters, Replace, Recovery measures, committed, Completed)  To drop a specific sequence we have to enter following syntax	
	80 V	A transaction that completes its execution successfully is said to be	
	T 000	V 200 OY 20 VO	

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## (c) Explain the following in one or two line

- i How to view stored procedure?
- ii How to alter a sequence?
- iii Give syntax of anonymous PL/SQL block.
- iv What is a SAVEPONT?
- v What REVOKE command does?

### Q. 2 Attempt the following (Any THREE)

(15M)

- (a) Explain insert, update trigger with an example.
- (b) Define Index. What do you mean by primary and secondary index?
- (c) Explain sequential file organization.
- (d) Write a short note on sequence along with an example.
- (e) How to create and execute stored procedure?
- (f) Explain with an example how will you drop an index in the database.

# Q. 3 Attempt the following (Any THREE)

(15M)

- (a) State how to write, call and execute the function from a PL/SQL block along with an example.
- (b) Write PL/SQL block, to print sum of odd numbers between 1 to 30.
- (c) Write a short note on loop and exit statement.
- (d) Explain IF-THEN statement with an example.
- (e) Write an block in PL/SQL to explain GOTO statement
- (f) Find out the similarities and differences between loop ..... end loop and while statement.

### Q. 4 Attempt the following (Any THREE)

(15)

- (a) What is Serializability? Write a note on view serializability?
- (b) Describe ACID properties for transaction.
- (c) Define COMMIT and SAVEPOINT commands along with an example.
- (d) Write a note on two phase locking protocol.
- (e) Explain two phase Commit protocol.
- (f) Explain undo and redo phase in Aries algorithm.

#### Q. 5 Attempt the following (Any THREE)

(15)

- (a) Explain how to create a trigger with an example.
- (b) List advantages of PL/SQL
- (c) How to make permanent changes to database. Explain
- (d) Explain Timestamp based protocol.
- (e) What is write-ahead log protocol? Explain with example