

SYCS/SEM III/ADC

Time: 2½ hrs.

Marks:75

Note:

1. All questions are compulsory with internal choice.
2. Draw neat diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q.1 Answer the following (any four)

(20)

- (a) Explain PL/SQL and its advantages.
- (b) Difference Between PL/SQL and SQL.
- (c) Explain Structure of PL/SQL with diagram.
- (d) Explain Delimiters with suitable example.
- (e) What is Order of evaluation in PL/SQL?
- (f) Explain Operators and its types.

Q.2 Answer the following (any four)

(20)

- (a) What is Collection and Record in PL/SQL?
- (b) Explain VARRAYS and its syntax.
- (c) What is Error handling in PL/SQL?
- (d) What are Cursors in PL/SQL? Explain its types.
- (e) Explain following terms in details
 - a. COMMIT
 - b. ROLLBACK
 - c. SAVEPOINT
- (f) What is Autonomous Transaction in PL/SQL?

Q.3 Answer the following (any four)

(20)

- (a) Explain Triggers in PL/SQL and its advantages.
- (b) Explain Package in PL/SQL and its advantages.
- (c) Explain ACID properties in Transaction.
- (d) What is Deadlock with diagram in PL/SQL?
- (e) What is Concurrency Control in PL/SQL?
- (f) Explain Shared Locks and Exclusive Locks in PL/SQL.

Q.4 Answer the following (any three)

(15)

- (a) What is Conditional statement? Explain any one of them in detail.
- (b) What are Stored Procedures in PL/SQL?
- (c) Explain SQL injection technique.
- (d) Difference between Procedures and Functions.
- (e) Explain ARIES Algorithm in crash recovery of PL/SQL.
- (f) Explain Log based recovery in DBMS.

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