

- Note:**
1. All questions are compulsory with internal choice.
 2. Draw neat diagrams wherever necessary.
 3. Figures to the right indicate full marks.
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- Q.1 Answer the following (any Four) (20)**
- (a) Explain PL/SQL with advantages.
 - (b) Explain variables with rules for variables declarations.
 - (c) Explain Sequence with syntax and suitable example.
 - (d) Explain IF...THEN statements with suitable example.
 - (e) Explain architecture of PL/SQL with diagram.
 - (f) Explain GOTO statement with syntax and suitable example.
- Q.2 Answer the following (any Four) (20)**
- (a) Explain Associative array with example.
 - (b) Explain User-defined records with example.
 - (c) Explain Error handling with its types.
 - (d) Explain table-based record with syntax.
 - (e) Explain Static SQL.
 - (f) Explain attributes of Implicit cursor.
- Q.3 Answer the following (any Four) (20)**
- (a) Explain Trigger with example.
 - (b) Explain ACID properties.
 - (c) What is a transaction? Explain with suitable example.
 - (d) Explain implementing trigger with all steps.
 - (e) Explain ARIES algorithm.
 - (f) Explain Transaction states in detail.
- Q.4 Answer the following (any Five) (15)**
- (a) Write a short note on literals.
 - (b) Explain VARRAY.
 - (c) Write a short note on Durability.
 - (d) Write a short note on data types.
 - (e) What is Consistency?
 - (f) Write a short note on Collection constructor.

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