

Q.1. a) Definition Data Independence 1 Mark.
Level abstraction 2 Marks
Relationship betⁿ Level 4 ~~Level~~ dependency 2 marks. } 5 Mark

b). Each for 1 Mark. } 5 Marks

OR.

Q.2. a) IS AB a candidate key 2.5 Marks }
ABD — 11— 2.5 Marks. } 5 Marks.

Calculation of AB^+ & ABD^+ .

b) design goals 3 marks }
Necessity why it is needed 2 Marks } 5 marks.

Q.3. a). Each for $2\frac{1}{2}$ Marks. } 5 Marks
Minimum 3 points in each

b). view defⁿ 1 mark
Advantages 2 Mark }
Syntax & Example 2 Mark. } 5 Marks

Q.4. a).

Q.4. a). Each short note for 2.5 Marks. } 5 marks
Minimum 3 points in each.

b) stored procedure 2.5 Marks }
function. 2.5 Marks. } 5 marks
Illustration with example 1 mark

Q.5. a) Transaction & Example 2 Marks }
ACID Properties 3 Marks } 5 Marks

b) ~~2~~ for Explanation 3 Marks }
Timestamp } 5 Marks
Suitable Example 1 mark.

Q.6. a). Recovery Petⁿ 1 mark }
check point 1 Mark } 5 Marks.
Explanation 3 marks

Solution Marking Scheme

- Q.1. a) Definition Data Independence 1 Mark.
 Level abstraction 2 Marks } 5 Marks
 Relationship betⁿ Level 4 ~~level~~ dependency 2 marks.

- b). Each for 1 Mark. } 5 Marks
 OR.

- Q.2. a) IS AB a candidate key 2.5 Marks } 5 marks.
 ABD — 11 — 2.5 Marks

Calculation of AB^+ & ABP^+

- b) Design goals - 3 marks
 2) what it is needed with example 2 Marks } 5 Mark

- Q.3. a). Each for $2\frac{1}{2}$ Marks. } 5 Mark

- b). view defⁿ 1 Mark
 Advantages 2 Mark } 5 marks
 Syntax & Example 2 Mark.

Q.4 a).

- Q.4 a). Each short note for 2.5 marks. } 5 marks
 Minimum 3 points in each.

- b). stored procedure 20 Marks } 5 marks
 function. 20 Marks.
 Illustration with example. 1 Marks.

- Q.5 a) Transaction & Example 2 Marks } 5 marks
 ACID properties 3 Marks

- b). ~~Timestamp~~ Timestamp Explanation 3 Marks } 5 Mark
 Suitable Example 2 Mark.

- Q.6 a). Recovery Methⁿ 1 mark } 5 Marks
 Check point 1 Mark
 Explanation 3 Marks

- b) ~~view~~ Each for 2.5. marks. } 5 Marks.