

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Create that view finds the salesman who has the customers with the higher order. (iii)

(10 Marks)

1 of 2

OR

- 6 Write a note on for following : a.
 - Assertion and action trigger. (i)
 - (ii) Views in SQL.
 - Explain stored procedures in SQL. b.
 - Briefly explain JDBC classes. C.

Module-4

- Explain informal guidelines to determine the quality of relation scheme design with 7 a. (08 Marks) example.
 - Explain Armstrong inference rule. b.
 - Discuss insertion and deletion anamalies. C.

OR

- Define normal form. Explain 2NF, 3NF and BCNF with suitable example. (10 Marks) 8 a. 2 sets of FDs, F and $G, F = \{A \rightarrow B, B \rightarrow C, AC \rightarrow D\}$ and b. Consider $G = \{A \rightarrow B, B \rightarrow C, A \rightarrow D\}$ Are F and G equivalent? (05 Marks)
 - c. Consider set of FD's be $E: \{B \rightarrow A, D \rightarrow A, AB \rightarrow D\}$, find the minimal cover of E.

(05 Marks)

Module-5

- Why concurrency control needed. Explain types of problems that may occur when 2 simple 9 a. (10 Marks) translation run concurrently.
 - b. Explain why recovery needed and Acid properties.

OR

- Briefly discuss Two-phase locking techniques for concurrency control. (08 Marks) 10 a.
 - Explain ARIES recovery algorithm with example. b.
 - Write a note on Deedlock prevention protocol. C.

2 of 2

(08 Marks) (04 Marks)

(10 Marks)

(10 Marks) (05 Marks). (05 Marks)

(06 Marks)

(06 Marks)