Q4. Briefly explain TWO (2) important duties of a database administrator. (b) (4 marks) Q4. (b) Data administration is a high-level function that is responsible for the overall management of data resources in an organisation.

Briefly discuss any TWO (2) data administration functions. (4 marks)

(a) (i) Define the term 'database administration'. (2 marks) (ii) Briefly describe any TWO (2) basic database recovery facilities. (4 marks) (i) The goal of database security is to protect data from accidental or intentional treats to their integrity and access. Describe with relevant example the difference between authentication and authorization. (4 marks)

Q3.

(a)

(ii) It is the responsibility of a database administrator to ensure that all critical data in a database are protected and can be recovered in the event of loss. Identify any TWO (2) basic recovery facilities and describe how they can be used to recover a database. (6 marks)