Q.4)

a.) Story of connectivity:-

(i) local databases have been developed, there was a need to correct connect

(ii) TCP/IP protocols were already in use in various places to share data between them.

(iii) TCP/IP was eventually used to connect to DB as well

(iv) Widespread of internet using TCP/IP lead to major developments

(v) ODBC, JDBC, ADO·NET, OLE·DB, Microservices & Microsofts UDA have increased the connectivity to DB.

b.) Now-a-days the dominant way of connecting to DB is microservices

① Frontend → produces function calls to various backend languages

② containers → There are docker containers for every function call

③ cloud is where the containers are hosted·

c). This can be done in two ways

1) Middleware servers (Web application servers)

2) using DB middleware.