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Department : BS(CS)

Semester : 4th

ID # : 15366

Assignment : Mid Term Assignment

Subject : Database System (Theory)

Submitted To : Ma'am Rimsha Khan

Dated : 26th April 2020

(1)

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Database Systems

Q1:

Ans. (1)

Candidate keys:

In the given table, ID, Name and cell are candidate keys.

Ans. (2)

Data Redundancy:

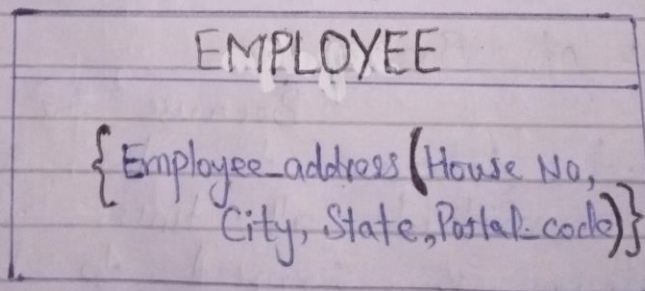
Data redundancy is the repetition or superfluity of data.

Data Integrity:

Data integrity refers to the accuracy and consistency of data stored in a database, data warehouse, data mart or other construct.

Ans. (3)

Multivalued Composite Attribute in Conceptual Model:



Multivalued Composite Attribute

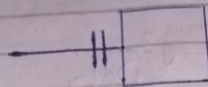
(2)

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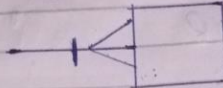
Ans(4) Reduced Maintenance:
Maintenance in database have little or no effect on the database application, thus reducing the maintenance costs.

Ans(5) ER Diagram:-

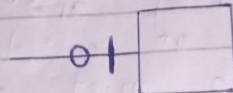
Mandatory One:



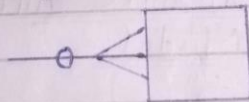
Mandatory Many:



Optional One:



Optional Many:



Ans(6) Need of Backup:-

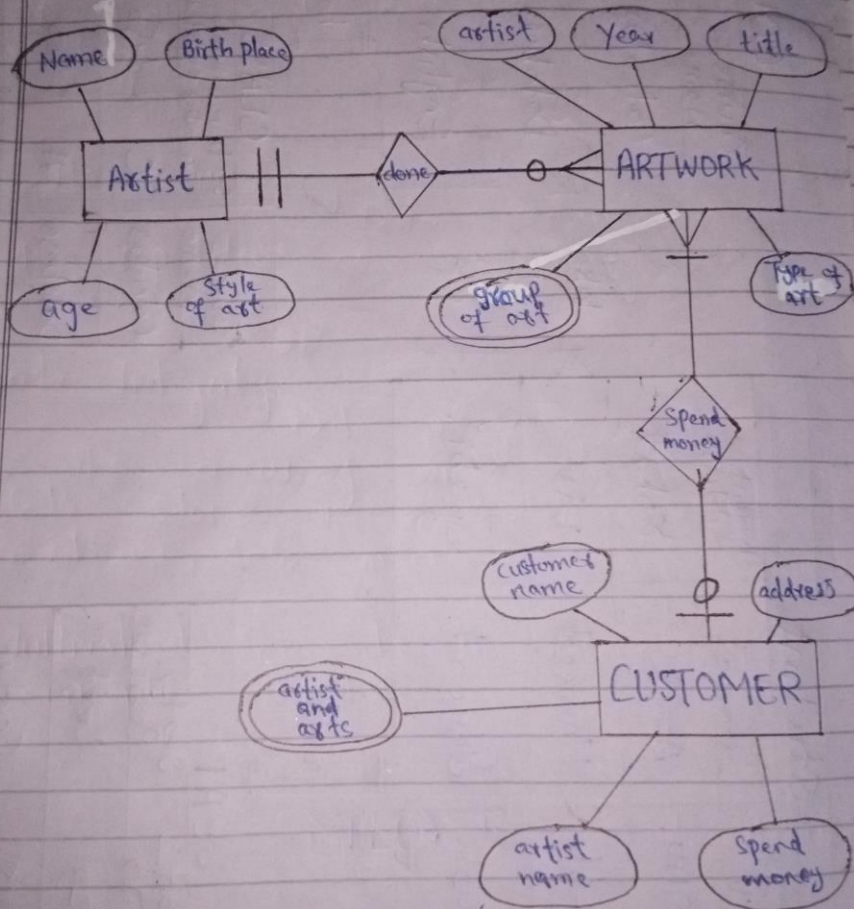
Because for a centralized shared database to be accurate and available all times, comprehensive procedure is required to be developed and used for providing backup copies

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of data and for restoring a database when damage occurs.

Q2:

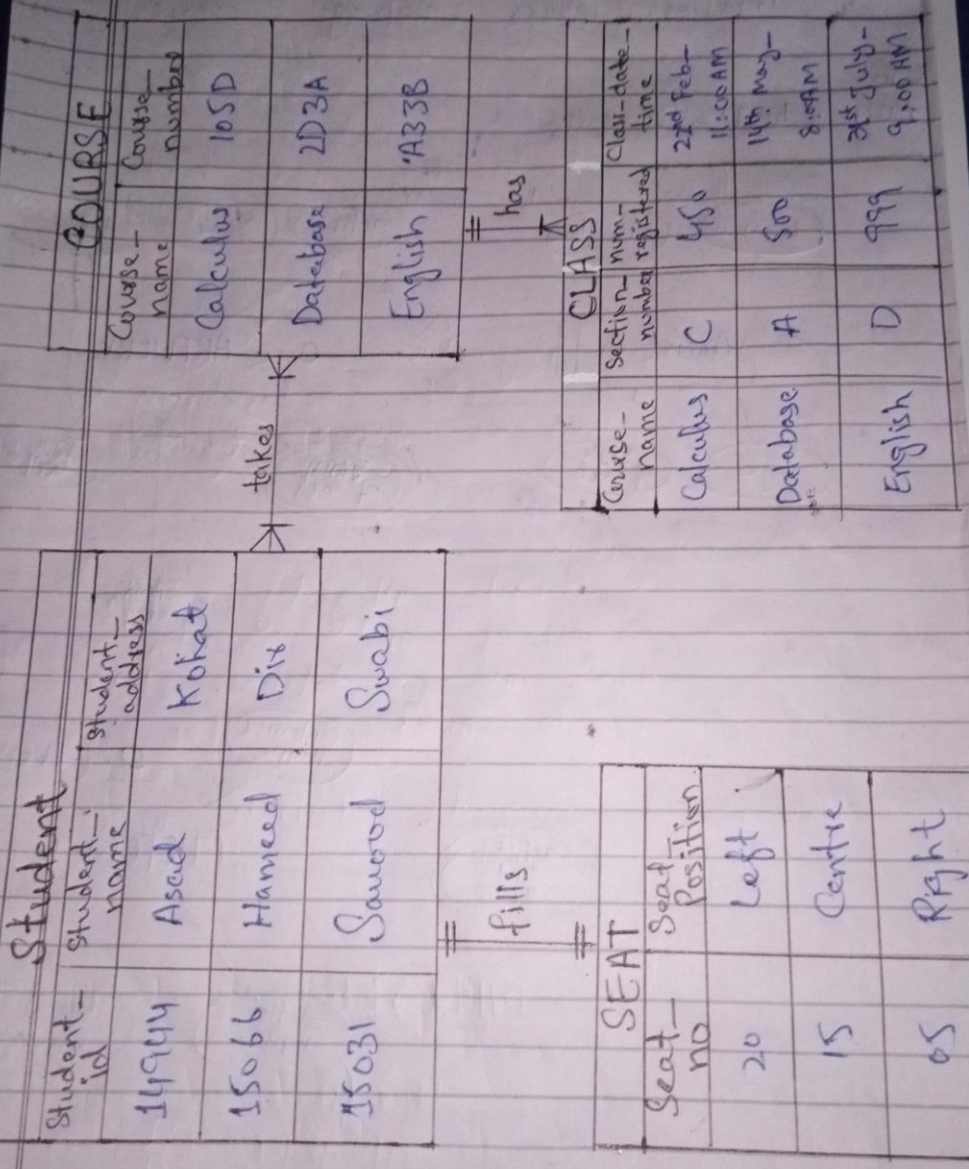
Ans: ERD Diagram:



(4)

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Q3:
Ans:



[The END]