DBMS concepts

Long Answer Type Questions

1. What is **DBMS**?
2. What is **database**?
3. What is **database system**?
4. Who developed **RDBMS**?
5. List the major components of **database system**?
6. List at least 5 possible attributes for a **student entity**.
7. If R1 is a relation with 8 rows and 5 columns , then what will be the **cardinality** of R1 ?
8. What is **relation**? Define the **relational data model**.
9. What is **data redundancy**? What are the problems associated with it ?
10. What do you understand by **Degree** and **Cardinality** of tables?
11. What is a **data type**, Give examples?
12. What is a **primary key**?
13. What is a **foreign key**?
14. What are rules to choose **a primary key** for your database table?
15. What do you understand by **Candidate key**?

Long Answer Type Questions

1. What is the difference between **logical** and **physical data independence**?
2. Describe the three level of **data abstraction**.
3. Describe different **data models**?
4. What is the main function of **database management system**?
5. What are the advantages and disadvantages of **DBMS**?
6. Define : Relation , Tuples, Primary key, Attributes, Foreign keys, Cardinality, Degree.
7. Differentiate between an **attributes** and a **tuple** with an example.
8. Write on difference between **data** and **information** with an example.

Extra Questions

1. Mention at least three limitations of **DBMS**.
2. Why does the need of the **Database system** arise? Give the reasons.
3. There are several database management systems used to manage the data in effective way Like MySQL and MS- SQL. Give some more name & explain **ANY 4**.

***