**20IT4304 Database Management Systems**

**Assignment I questions from Unit I**

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| **S.No** | **Question** | **CO Mapping** | **BTL** |
| 1 | a.Illustrate DBMS environment that constitutes different types of software components and the types of computer software with which the DBMS interacts.  b.Elaborate the importance of workers behind the scene | CO1 | Remember |
| 2 | 1. Discuss in detail about relational model concepts 2. Elaborate various database users that involve in day-to-day use of a database. | CO1 | Understand |
| 3 | Describe the three-schema DBMS architecture with a neat sketch. | CO1 | Remember |
| 4 | 1. Define Data Independence. Differentiate logical and physical data independence with various examples. Which one is harder to achieve? Why? 2. Outline the advantages of using the DBMS approach | CO1 | Analyze |
| 5 | Consider the following relations for a database that keeps track of student enrollment in courses and the books adopted for each course: STUDENT(Ssn, Name, Major, Bdate)  COURSE(Course#, Cname, Dept)  ENROLL(Ssn, Course#, Quarter, Grade)  BOOK\_ADOPTION(Course#, Quarter, Book\_isbn)  TEXT(Book\_isbn, Book\_title, Publisher, Author)  Specify the foreign keys for this schema, stating any assumptions you make. | CO1 | Apply |
| 6 | a.Discuss the main characteristics of the database approach and how it differs from traditional file systems.  b.Summarize database languages and interfaces | CO1 | Understand |
| 7 | Consider the following relations for a database that keeps track of business trips of salespersons in a sales office:  SALESPERSON(Ssn, Name, Start\_year, Dept\_no)  TRIP(Ssn, From\_city, To\_city, Departure\_date, Return\_date, Trip\_id) EXPENSE(Trip\_id, Account#, Amount)  A trip can be charged to one or more accounts.  Specify the foreign keys for this schema, stating any assumptions you make. | CO1 | Apply |