**Institute of Information Technology & Management**

**External Practical Exam**

**Subject: DBMS Duration: 2 Hrs**

**Set-A**

1. Consider relational database:

Supplier (Supno, sname, supaddress)

Item (Itemno, Iname, stock)

Supp-Item (Supno, Itemno, rate)

Write RDBMS expression for the following

i. List all suppliers from ‘Varanasi’ city who supplies PISTON.

ii. Display all suppliers supply PISTON RINGS

iii. Change supplier names to upper case

2. Implementation of DDL commands of SQL with suitable examples

i. Create table

ii. Alter table

iii. Drop Table

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**Set-B**

1. Consider the following Relational Database.

Doctor (dno, dname,address,dcity)

Hospital (hno,hname,street,hcity)

Dochosp (dno,hno,date)

Construct Queries into RDBMS.

a) Find hospital names to which ‘Dr. Mehata’ has visited.

b) Find out all the doctors who have visited hospitals in the same city.

2. Implementation of different types of Joins

i. Inner Join

ii. Left Join

iii. Natural Join

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1. **Set-C** A Company has several departments. Each department has a supervisor and at least one

employee. Employee must be assigned to at least one, but possibly more department

i. Identify all entities

ii. Identify all relations.

iii. Draw E-R Diagram..

2. Implementation of following SQLclause with suitable examples

i. Group By & having clause

ii. Order by clause

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**Set-D**

1. A Company has several employees. At least one employee is assigned to a project, but an

employee may be on vacation and not assigned to any projects. A database should provide

following details to the user

i. Identify all entities

ii. Identify all relations.

iii. Draw E-R Diagram.

2. Implementation of DML commands of SQL with suitable examples

i. Insert

ii. Update

iii. Delete