Punjab University College of Information Technology (PUCIT)

**Quiz # 2**

Database Systems – (BS-CS Fall 18) – Semester Fall 2020

Time Allowed: 12 Mins. Total Marks: 10

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**Q#1:** Fill in the blanks (4)

1. The above diagram is an example of \_\_one to many\_\_\_ cardinality.
2. Number of tuples in a relation is called \_cardinality\_ of the relation.
3. Number of entities participating in a relationship is called \_\_cardinality\_\_\_\_\_\_ of relationship.
4. If relation A has 6 tuples and 4 attributes and relation B has 3 tuples and 2 attributes and then Cartesian product of A and B will have \_\_18\_\_\_\_ tuples.

**Q#2:** Differentiate between cardinality of a relation and cardinality of a relationship. (2)

Number of tuples in a relation is called cardinality of the relation while the number of entities participating in a relationship is called cardinality of relationship

**Q#3:** Use the following tables to answer the queries:

EMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

DEPT (DEPTNO, DNAME, LOC)

1. List down ename, job, sal, deptno, dname for the all the employees whose job is CLERK. (2)

Select ename ,job,sal,e.deptno,dmane

From emp e join dept d

On e.deptno=d.deptno

Where e.job=’CLERK’

1. LIST MINIMUM AND MAXIMUM SALARIES OE EACH JOB. Sort the output with respect to job. The output should be of the form: (2)

**Job Min. Sal Max. Sal**

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Select job , min(sal) as “Min. Sal” ,max(sal) as “Max. Sal” from emp

Group by job