



Register No:

Date:

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE
I SEMESTER EXAMINATION, OCTOBER 2018
M.SC IN BIG DATA ANALYTICS
BDA 1518: DATABASE MANAGEMENT

TIME 2.5 HRS

MAX MARKS 70

THIS QUESTION PAPER CONTAINS TWO PRINTED PAGES AND TWO PARTS

PART- A

ANSWER ALL QUESTIONS

(2 X10=20)

1. List any four characteristics of DBMS.
2. With a suitable example explain weak entity.
3. What is the Difference between Single valued and multi valued attributes?
4. What do you mean by cardinality ratio?
5. What is the difference between DDL and DML?
6. Why we need to do normalization?
7. Explain deadlock.
8. What is a data dictionary?
9. What is a heterogeneous distributed database?
10. Define Indexing.

PART-B

ANSWER ANY FIVE QUESTIONS

(5 X 10 = 50)

1. Explain the different data models present in the DBMS? In your opinion which type of data model is more applicable in real world environment?
2. Explain different constraints in DBMS.
3. What is functional dependence? Explain with help of an example.
4. Draw architecture of distributed databases and explain.
5. Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted.
6. Write the SQL for the following Database Schema

Works(Pname, Cname, Salary)

Lives(Pname, Street, City)

Located in(Cname, City)

Where Pname = person's name

Cname = company's name

- a) Retrieve the names of all person of TCS whose salary is more than
Rs. 50,000 (2)
- b) Find the names of all persons who live and work in same city. (2)
- c) Find the average salary of "TCS" employees. (3)