



RAN - 1911000102050001

**RAN-1911000102050001****F.Y. BCA (Sem-II) Examination****January - 2021****Paper - 205: Database Management System****Time: 3 Hours ]****[ Total Marks: 70****સૂચના : / Instructions****(૧)****નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.****Fill up strictly the details of signs on your answer book**

Name of the Examination:

**F.Y. BCA (Sem-II)**

Name of the Subject :

**Paper - 205: Database Management System**Subject Code No.: **1911000102050001**

Seat No.:

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Student's Signature

- (2) Figures on the right indicate marks.  
 (3) Take assumption whenever necessary.

**Q. 1      Answers following(Any Seven)****(14)**

- Differentiate between DROP and DELETE Statement.
- List out characteristics of DBMS.
- Differentiate between strong and weak entity set.
- Differentiate between primary and unique key.
- Explain MEMO data type.
- Explain Data Independence.
- Explain schema and instance.
- List out the responsibilities of database manager.

**Q.2      Answers following (Any Two)****(14)**

- Draw and explain the architecture of DBMS.
- What is an attribute? Explain various types of attributes.
- Discuss different types of users.

**Q.3      Answers following (Any Two)      (14)**

- What is normalization? Explain up to 3rd normal form with an example.
- What do you mean by attribute? Explain types of attribute.
- Explain network and object oriented model with an example.

**Q.4**      **Answers following.**

- (a) Draw E-R diagram for school management system and also explain all the attributes. **(07)**

**OR**

- Draw E-R diagram for library management system and also explain all the attributes.
- Explain aggregation with an example (07)

**Q.5** Consider Employee and Department relations with following attributes. (14)

**EMP** (empno, ename, job\_title, hiredate, salary, deptno)

**DEPT** (deptno, dname, city)

**Write SQL for following:**

1. Create tables and give proper constraints.
2. Find the Employees who are not working in “HR”, ”IT” and “FINANCE” department.
3. Display the name of employee and department who get salary more than 10000.
4. Display the name of employees whose name start with ‘K’ and end with ‘A’.
5. Display the name of employees who are getting maximum salary in each department.
6. Find the name of employees who work in VAPI city.
7. Display the name of employee who are working in “IT” department and have more than 3 years experience.