



RAN - 1911000102050001

RAN-1911000102050001**F.Y.B.C.A. (Sem-II) Examination****November / December - 2019****Database Management System****Time: 3 Hours]****[Total Marks: 70****સૂચના : / Instructions****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.B.C.A. (Sem-II)

Name of the Subject :

Database Management System

Subject Code No.: 1911000102050001

Seat No.:

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Student's Signature

- (1) Figure on the right indicate marks.
 (2) Take assumption whenever necessary.

Q:-1 Answer any seven questions.**14**

- 1 Explain referential integrity with an example.
- 2 Define DBMS with an example.
- 3 Difference between DROP and DELETE command.
- 4 Difference between physical and logical independence.
- 5 Explain prime and non-prime attribute.
- 6 List out the responsibilities of database manager.
- 7 Explain functional dependency.
- 8 Explain schema and instance.

Q:-2 Give answer the following(Any three)**18**

- 1 Explain architecture of DBMS.
- 2 Describe concept of generalization and specialization with an example.
- 3 Explain DDL and DML statements with an example.
- 4 Explain mapping cardinality with an example.

Q:-3 Give answer the following(Any three) 21

- 1 What is normalization? Explain upto 3rd normal form with an example.
- 2 What do you mean by attribute? Explain types of attribute.
- 3 Explain network and object oriented model with an example.
- 4 Explain various types of keys.

Q:-4 Draw E-R Diagram for school management system. **05**

OR

Draw E-R diagram for library management system.

Q:-5	Consider the employee data. Give an expression in SQL for the following query.	12
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EMP (empno, ename, job_title, hiredate, salary, deptno)

DEPT (deptno, dname, loc)

- 1 Create tables and give proper constraints.
- 2 Find the Employees who are working in "HR" "IT" , and "MBA" 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 'V and end with 'L'.
- 5 Display the name of employees who are getting maximum salary in each department.
- 6 Find the name of employees who works in more than one department.