



RAN - 1911000102050001

RAN-1911000102050001**FYBCA(SEM-II) Examination****March / April - 2019****FYBCA SEM-II Paper 205 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:

☛ **FYBCA(SEM-II)**

Name of the Subject :

☛ **FYBCA SEM-II Paper 205 Database Management System**Subject Code No.: **1911000102050001**

Seat No.:

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Student's Signature

Instructions:

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

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

- 1 Explain strong and weak entity set with an example.
- 2 Define schema with an example.
- 3 Difference between ALTER and UPDATE command.
- 4 Explain data independence.
- 5 Explain trivial and non-trivial dependency.
- 6 What do you mean by SQL. Give the general form of Query.
- 7 How to create relationships among table.
- 8 What are the functions of file manager?

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

- 1 Explain database users.
- 2 Describe concept of Aggregation with an example.
- 3 How conventional file system is differ from database management system.
- 4 Explain mapping cardinality with an example.

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

- 1 What is normalization? How 3NF is differ from BCNF.
- 2 What do you mean by attribute? Explain types of attribute.
- 3 Explain Loss-less join Decomposition.
- 4 Explain various types of constraint with an example.

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

OR

Draw E-R diagram for college management system.

Q:-5	Consider the employee data. Give an expression in SQL for the following query.	12
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Teacher (Tech_code, tname, join_date, salary, city) Subject
(Sub Code, Sub name, Tech code)

- 1 Create tables and give proper constraints.
- 2 Find the name of teachers who are taking more than two subjects.
- 3 Display the name of teacher who get salary more than 35000 and teach "Computer graphics" subject.
- 4 Display the name of teacher whose name start with 'K' and end with 'A'.
- 5 Count the teacher who is not taking any subject.
- 6 Display the name of teacher who is situated in 'Valsad' and taking 'RDBMS' and 'Operating system' subjects.