

F.Y. B. SC. (Computer Science) SEM – I (CBCS 2018 COURSE) :
SUMMER - 2019
SUBJECT : INTRODUCTION TO RDBMS

Day : Monday
Date : 08/04/2019

S-2019-1051

Time : 03.00 PM To 06.00 PM
Max. Marks : 60

N. B. ;

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q. 1 Attempt **ANY TWO** of the following: (12)

- a) What is data model? Explain types of data models.
- b) What is entity relationship diagram? Draw entity relationship diagram for Airlines reservation system.
- c) Explain select and project operations in relation algebra with suitable examples.

Q. 2 Attempt **ANY TWO** of the following: (12)

- a) What is file organization? Explain Hash file organization.
- b) Draw and explain database management system architecture.
- c) What is the use of ORDER BY clause? Explain syntax and example of ORDER BY clause.

Q. 3 Attempt **ANY TWO** of the following: (12)

- a) Explain Natural join operation in relational algebra with suitable example.
- b) Explain any three ORACLE functions with the help of syntax and example.
- c) Explain following SQL statements with the help of example
i) CREATE ii) INSERT INTO

Q. 4 Attempt **ANY THREE** of the following: (12)

- a) What is the use of GROUP BY clause? Explain GROUP BY clause with syntax and example.
- b) Differentiate between Binary relationship and Ternary relationship.
- c) Explain UNION operation in relational algebra with suitable example.
- d) What is the use of WHERE clause? Give one example for the use of WHERE clause in SQL query.

Q. 5 Write short notes on **ANY FOUR** of the following: (12)

- a) Define Generalization. What is the symbol use to show Generalization in ER diagram? Give one example for the same.
- b) Give syntax and one example for DROP statement in SQL.
- c) What is the use of BETWEEN operator in SQL? Give one example for BETWEEN operator.
- d) What is the use of SELECT statement in SQL? Give one example for SELECT statement.
- e) Write a short note on SQL data types.
- f) Define : Simple attribute, Composite attribute, Multi-valued attribute with example.