

F.Y. B. SC. (Computer Science) SEM – I (CBCS - 2016 COURSE) :
WINTER - 2018
SUBJECT: INTRODUCTION TO RDBMS

Day: Wednesday
Date: 10/10/2018

Time: 11.00 AM TO 02.00 PM
Max. Marks: 60

W-2018-0894

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 A) Select the correct alternative and rewrite the sentences: **(06)**

a) Which one of the following aggregate SQL function returns number of rows?

- | | |
|----------------|------------------|
| i) avg | iii) min |
| ii) max | iv) count |

b) We can add row/rows using following SQL statement:

- | | |
|-------------------|--------------------|
| i) ADD | iii) INSERT |
| ii) CREATE | iv) UPDATE |

c) Which of the following key is use for unique identification?

- | | |
|--------------------------|--------------------------|
| i) Primary key | iii) Foreign key |
| ii) Secondary key | iv) None of these |

d) Complex calculations can be performed using the following operation:

- | | |
|------------------------|--------------------------|
| i) Union | iii) Nested IF |
| ii) Aggregation | iv) None of these |

e) Which command is used to add a column to an existing table?

- | | |
|-------------------|--------------------------|
| i) CREATE | iii) ALTER |
| ii) UPDATE | iv) NONE of these |

f) Which of the following is a data query statement in SQL?

- | | |
|-------------------|------------------------------|
| i) RETRIVE | iii) SELECT |
| ii) GET | iv) NONE of the above |

B) Answer all the questions in one sentence: **(06)**

- a)** What is the use of WHERE clause?
- b)** What is the purpose of SUM() function in SQL?
- c)** What is the use of IN operator?
- d)** Give the syntax of SELECT statement in SQL.
- e)** Define BETWEEN operator in SQL.
- f)** Define SQL function LOWER().

P.T.O.

Q.2 Answer **ANY THREE** of the following: **(12)**

- a) Explain features of SQL.
- b) Explain UPDATE statement with syntax and example.
- c) Explain DELETE statement with syntax and example.
- d) Create table Player(playerid, playername, playerage) and solve the following queries:
 - i) Display all information from Player table.
 - ii) Display all players having age more than 40.
 - iii) Display playerid and playername.

Q.3 Answer **ANY FOUR** of the following: **(12)**

- a) What is DROP statement? Give syntax for DROP statement.
- b) Write a short note on mapping constraints.
- c) Write a short note on hierarchical model.
- d) Explain any three DATE functions in SQL.
- e) Explain OR operator with the help of example.

Q.4 Answer **ANY TWO** of the following: **(12)**

- a) Explain nested queries with the help of example.
- b) Explain ORDER BY clause with the help of example.
- c) Differentiate between strong and weak entities.

Q.5 Answer **ANY TWO** of the following: **(12)**

- a) Draw E-R model for college admission system.
- b) Explain following SQL functions:
 - i) min()
 - ii) max()
 - iii) avg()
- c) Explain ALTER statement with syntax and example.

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