

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)
B.C.A. Sem-III : WINTER :- 2021
SUBJECT: DBMS-II

Day : Thursday
Date 17-02-2022

W-18998-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 70

N.B.:

- 1) All questions carry **14** marks.
- 2) Solve **ANY THREE** from section-I and solve **ANY TWO** from section-II.
- 3) Question No. **4** is **COMPULSORY**.

SECTION-I

- Q.1** Explain the components of SQL with examples of each. Write the function of each component in brief. **(14)**
- Q.2** What are Primary and Foreign keys? Give Syntax to create it. **(07)**
Give syntax with example for following
i) To add a new column to table. **(07)**
ii) Change data type of existing column.
- Q.3** a) Differentiate between where and having clause. **(07)**
b) Explain any three aggregate functions with example. **(07)**
- Q.4** Write short notes on **(ANY TWO)**: **(14)**
a) Triggers
b) Joins
c) Oracle database objects
d) Cursors

SECTION-II

- Q.5** Consider following relations
Sailors (sid, sname, rating, age)
Boats (bid, bname, colour)
Reserves (sid, bid, day)
Write the following queries in SQL,
a) Display details of sailors who have reserved a red and a green boat. **(04)**
b) Find the age of sailors whose name begins and ends with 'B' and has at least 4 characters. **(04)**
c) Find the names of sailors with rating of 10 **(02)**
d) Display the colour and name of the boat reserved on '1 July 2018'. **(04)**
- Q.6** Write PL/SQL to accept the student roll no and display the course name for which he/she has enrolled. Consider the following **(14)**
student (sid, sname, cid)
Course (cid, cname, semester)
- Q.7** See the following relation
Emp (emp-id, name, job, salary, jon-date, commission, dept-no)
Dept (dept-no, dname, loc)
1. Display details of employee working as 'Manager'. **(04)**
2. Display job wise count total salary. **(04)**
3. Display name of the employee joined in the month of 'May'. **(04)**
4. Display details of employee who is working in dept. **(02)**

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