B.C.A. SEM–II (2014 COURSE) CBCS : WINTER - 2017

SUBJECT: APPLIED DATABASE MANAGEMENT CONCEPTS USING ORACLE

Day: **Saturday** Time: **10.00 AM TO 01.00 PM**

Date: **11/11/2017** **W-2017-1607** Max. Marks: 100

N.B.;

1) Attempt **ANY FOUR** questions from Section – **I** and **ANY TWO** questions from Section – **II**.
2) Solve both sections in the **SAME** answer book.
3) Figures to the right indicate **FULL** marks

SECTION - I

Q.1 What is Oracle? Explain the various tools of oracle in detail. **(15)**

Q.2 Explain CODD's rules that qualify a database as relational database. **(15)**

Q.3 Explain the following commands with example. **(15)**

i) SELECT ii) TRUNCATE TABLE iii) UPDATE

Q.4 What are data constraints? Explain the various data constraints with their purpose and example. **(15)**

Q.5 What is PL/SQL? Explain the various sections of PL/SQL block with example. **(15)**

Q.6 What is cursor? Explain the different types of cursors. Also explain the steps involved in declaring a cursor and manipulating data in active set. **(15)**

Q.7 Write short notes on **any THREE** of the following: **(15)**

a) Data types in SQL **c)** String functions
b) Set operations **d)** Sequence

SECTION - II

Q.8 Write SQL queries for the following:

i) Create following tables with proper constraints. **(04)**
Client_Master (Client_No (PK), ClientName, City, State, Balance_due)
Sales_Order (Order_No(PK), Order_Date, Client_No (FK), Delivery_Date)

ii) Insert 2 records in each table. **(04)**

iii) Find the name of clients having 'a' as second letter in their names. **(02)**

iv) Find the name of clients who stay in 'Mumbai' or 'Delhi'. **(02)**

v) Print the order numbers placed in the month of January. **(02)**

vi) Add column Contact Number in Client Master table. **(02)**

vii) Display name of clients from the state of Maharashtra. **(02)**

viii) Display name of clients and their balance due in the descending order on column Balance_due. **(02)**

Q.9 **a)** Write a PL/SQL block to generate a multiplication table of 5. **(10)**

b) Write a PL/SQL block to enter the value of Radius and compute area of circle. **(10)**

Q.10 Consider the following table structure:- **(20)**

Employee (Eno (PK), Ename, salary, Date_of_joining)
Write a simple PL/SQL Block to increment the salary of employee 'Raj' by 10% and that of 'Ravi' by 20%. The changes should be reflected in the Employee table.

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