

**F.Y. B. SC. (COMPUTER SCIENCE) SEM –II (CBCS - 2016  
COURSE) : SUMMER - 2018  
SUBJECT: RDBMS USING ORACLE**

Day: **Tuesday**  
Date: **10/04/2018**

**S-2018-0801**

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.

**Q.1** A) Select the correct option and rewrite the complete sentence. **[06]**

a) PL/SQL exception message consists of

- |                       |               |
|-----------------------|---------------|
| i) An error code      | iii) Message  |
| ii) Type of exception | iv) All above |

b) Which exception is known as oracle named exception handler?

- |                            |                         |
|----------------------------|-------------------------|
| i) Predefined exception    | iii) Internal exception |
| ii) User defined exception | iv) None of the above   |

c) How many nested IF clauses can be included within IF clause?

- |      |       |        |                |
|------|-------|--------|----------------|
| i) 1 | ii) 2 | iii) 0 | iv) Any number |
|------|-------|--------|----------------|

d) PL/SQL stands for -

- i) Programming language / SQL
- ii) Procedural language /SQL
- iii) Portable Language /SQL
- iv) None of the above

e) Which of the following is used to define code that is executed when certain actions or event occur?

- i) Cursor
- ii) Trigger
- iii) Keywords
- iv) replace

f) Which of the following data type is use to store date in the database

- |         |              |               |          |
|---------|--------------|---------------|----------|
| i) time | ii) datetime | iii) onlytime | iv) date |
|---------|--------------|---------------|----------|

**B)** Answer all the questions in one sentence. **[06]**

- a) What is serial schedule?
- b) What do you mean by exception?
- c) How to declare variables in PL/SQL?
- d) Define ACID properties.
- e) What is database trigger?
- f) List the PL/SQL data types.

**Q.2** Answer Any **THREE** of the following. **[12]**

- a) Explain Timestamps versus Locking.
- b) Explain different states of transaction with suitable diagram.
- c) Explain advantages of PL/SQL.
- d) Sates the Rules for 1NF and 2NF.

**P.T.O.**

**Q.3** Answer Any **FOUR** of the following: **[12]**

- a) Explain while loop with syntax.
- b) What is growing phase and shrinking phase?
- c) Write a PL/SQL block to calculate simple interest.
- d) Write a PL/SQL block to accept a number check whether it is positive or negative.
- e) Write a PL/SQL block to check a number is prime or not.

**Q.4** Answer any **TWO** of the following: **[12]**

- a) Explain deadlock prevention algorithms.
- b) Explain union and intersection operations in Relational algebra.
- c) Explain types of locks.

**Q.5** Answer any **TWO** of the following: **[12]**

- a) Write a database trigger to-
  - i) Prevent insertion
  - ii) Prevent deletionof records into database.
- b) What is cartesian product operation? Explain with suitable example
- c) Write a PL/SQL procedure on student table for displaying student record according to their roll number.

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