BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE) F.Y.B.Sc.(Computer Science) Sem-II : WINTER- 2022 SUBJECT : RDBMS USING ORACLE

Day: Monday Time: 02:00 PM-05:00 PM Date: 5/12/2022 W-20078-2022 Max. Marks: 60 N.B. 1) All questions are **COMPULSORY**. 2) Figures to the right indicate FULL marks. Q.1 Answer any **TWO** of the following: (12)Explain database transaction with suitable example. What is PL/SQL stored procedure? What is the syntax for stored b) procedure? Explain the syntax with suitable example. Explain the following relational algebra operations with the help of c) example: Union ii) Set difference Q.2Answer any **TWO** of the following: (12)What is database schedule? Explain serial schedule with the help of example. Explain the following PL/SQL control structure with syntax and example: i) IF-THEN-ELSE ii) WHILE LOOP Explain the following terms: i) Functional dependency ii) Transitive dependency. Answer any **TWO** of the following: Q.3 (12)a) Explain the advantages of PL/SQL. b) Explain phantom problem with the help of example. Write a PL/SQL block for the following: Create table Employee (eno, ename, esal). Select the employee salary for given employee number, if salary > 50,000 then display 'No Bonus' message. If salary < 50,000 then give 15% bonus and display bonus amount. **Q.4** Answer any **THREE** of the following: (12)State various features of PL/SQL. a) Write a note on ACID properties of transaction. b) What is database incorrect analysis problem? Give one example for the c) What are the basic data types in PL/SQL? Give one example for each. d) Q.5 Answer any **FOUR** of the following: (12)a) State the advantages of database trigger. What do you mean by concurrent execution of transactions? b) State any three oracle named exception handlers with meaning. c) Write a PL/SQL block to accept radius of circle and display area of circle. d) What are the rules for 3NF? e) Write a short note on lossless join decomposition in DBMS.