

TDC Even Semester Exam., 2019

COMPUTER SCIENCE

(Pass)

(6th Semester)

Course No. : BCSP-601

(Database Management System
and Visual Basic)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. What is database management system? Illustrate the components of database management system with a neat diagram. 7
2. Draw an entity-relationship diagram for a database to be designed for a small enterprise engaged in manufacturing and exporting handicraft products. List the names of all entities, their attributes and show the relationship among the entities clearly. 7

UNIT—II

3. Define and explain the working of the following SQL commands with one example for each : 7

DROP, ALTER, GROUP BY, HAVING

4. Define and explain the relational algebraic operations with examples for each Cartesian product, JOIN, EQUIJOIN and NATURAL JOIN. 7

UNIT—III

5. (a) Write a visual basic program to find the sum of any ten integers. 4
(b) Explain how a form can be designed with one example. 3
6. (a) What is event driven programming? Explain. 3
(b) Write a visual basic program to enter the marks obtained by a student in examination and then to display the total marks and the percentage. 4

(3)

UNIT—IV

7. Write a visual basic program by using arrays to store two matrices of dimensions not less than 3×3 and their sum and difference. 7
8. How can menus be designed? Write a visual basic program using menus to calculate the areas and perimeter/circumference of triangle, rectangle, parallelogram and circle. 7

UNIT—V

9. By using visual basic, create a database of students. Specify the necessary tables, primary and foreign keys for your database. Write at least three queries to find details about the data stored. 7
10. What are ADO and RDO? Explain in detail. 7
