TV162800C **Reg. No:.....**

Name:.....

B. VOC. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017
(2016 Admission - Regular & 2015 Admission - Supplementary / Improvement)
SEMESTER II - SOFTWARE DEVELOPMENT
VSD2S05TB - DBMS/SQL

Time: Three Hours **Maximum Marks: 80**

PART A

I. Answer all questions. Each question carries 1 mark

1. What is DBMS?
2. Explain derived attribute with an example
3. What is SQL?
4. Explain Super key
5. What is Schema ?
6. Explain DBA.
7. What is a DataBase?
8. Define Entity.
9. Define DataModel.
10. Define Attribute

(10x1=10)

PART B

II. Answer any eight questions. Each question carries 2 marks

11. Distinguish between strong and weak entities.
12. Write short notes on Data Models.
13. Explain Single Valued and Multi Valued Attribute.
14. Discuss Integrity Constraints.
15. What do you mean by Weak Entity Set.
16. Explain Normalisation.
17. What is a Query?
18. Explain About Different Users of DBMS
19. Explain ACID Properties.
20. Explain SQL
21. What is Data Independence
22. Give Examples for one to one and one to many relationships

(8x2=16)

PART C

III. Answer any six questions. Each question carries 4 marks

23. Explain the advantages of DBMS over traditional file system.
24. Explain in detail mapping cardinalities.
25. What is an attribute ? State different types of Attributes.

26. Consider the following relations :

EMPLOYEE (E_NO, E_Name, Salary, D_No)
DEPARTMENT (D_No, D_Name, Assets)

Employee and Department are related with many to one relationship. Create a RDB and solve the following queries in SQL :

(*i*) List all the employees belonging to the 'Production' department.

(*ii*) Give the names and salaries of all employees working in the departments having assets greater than 2,00,000.

(*iii*) Find the names of departments where more than 30 employees are working.

27. List the set operations of SQL.
28. Compare physical and logical database models
29. What do you mean by SQL? Discuss the various components of SQL in detail with suitable examples.
30. Who is DBA ? What are the responsibilities of DBA.
31. Discuss three levels of Data Abstraction

(6x4=24)

PART D

IV. Answer any two questions. Each question carries 15 marks

32. What is DBMS? Discuss the Architecture of DBMS. What are the components of DBMS? Explain in brief
33. Discuss normalization. Explain first normal form, second normal form, third normal form with suitable examples.
34. What is E-R model? What are the various symbols used to draw E-R diagram? Explain With an Example.
35. Draw an E-R diagram for College Management System.

(2x15=30)