TB173190C

Reg. No: .....

Name: .....

B. Sc. DEGREE (C.B.C.S.S) EXAMINATION, OCTOBER 2018

(2017 Admissions Regular, 2016 Admissions Supplementary/Improvement & 2015 Admissions Supplementary)

SEMESTER III - CORE COURSE (COMPUTER APPLICATIONS [TRIPLE MAIN])

CAC3B07TB - DATABASE MANAGEMENT SYSTEMS

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

PART A

I Answer all questions. Each question carries 1 mark.

1. Explain View ?
2. Define Schema.
3. Define DataModel.
4. Define Attribute?
5. Expand DDL
6. Explain ACID Properties

(6x1=6)

PART B

II Answer any seven questions. Each question carries 2 marks

7. Explain about DataBase Users.
8. What is a Query ?
9. What are the Features of DBMS.
10. Define Null Values
11. Explain about the Purpose of Database system.
12. Explain Primary Key and Foreign Key.
13. Define Data Dictionary
14. Define entity and entity set.
15. Explain SQL
16. What is Data Independence

(7x2=14)

PART C

III Answer any five questions. Each question carries 6 marks

17. Give Examples for one to one and one to many relationships
18. List the Relational Algebra operations of SQL.
19. Compare physical and logical database models
20. What do you mean by SQL? Discuss the various components of SQL in detail with suitable examples.
21. Consider the following tables:

    Employee (Emp_no, Name, Emp_city)

    Company (Emp_no, Company_name, Salary)

i. Write a SQL query to display Employee name and company name.

ii. Write a SQL query to display employee name, employee city ,company name and salary of all the employees whose salary >10000

iii. Write a query to display all the employees working in "XYZ" company.

22. Explain Single Valued and Multi Valued Attribute.
23. Explain the need of Normalisation.
24. List the drawback of normal File Processing System

(5x6=30)

PART D

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

25. What is DBMS? Discuss the Architecture of DBMS. What are the components of DBMS? Explain in brief
26. Discuss normalization. Explain first normal form, second normal form, third normal form with suitable examples.
27. What is E-R model? What are the various symbols used to draw E-R diagram? Explain With an Example.
28. Explain nested subquery in detail

(2x15= 30)