NATIONAL OPEN UNIVERSITY OF NIGERIA,
PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA
FACULTY OF COMPUTING
2024_2 EXAMINATION

Course Code: CIT 843
Course Title: INTRODUCTION TO DATABASE MANAGEMENT SYSTEM
Time: 3 hrs
Credit: 3 Units
Instruction: Attempt 4 questions. Question1 is Compulsory and any other two (2) Questions

Question One

1a. Outline five (5) characteristics of a good data model
5marks

1b State three (3) SQL data types you are familiar with given examples
6marks

1c. Define Database Backup
3marks

1d. Define Data Definition Language (DDL) in SQL, and state four (4) commands used in DDL
5marks

1e. Outline six (6) characteristics of selections operations
6marks.

1f. State the steps involved in creating query using Wizards and design views
5marks

Question Two

2. Using the table to answers the questions that follow:

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
001	Monika	Arora	100000	2014-02-20 09:00:00	HR
002	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
003	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
004	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
005	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
006	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
007	Satish	Kumar	75000	2014-01-20 09:00:00	Account
008	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

2a. Write an SQL query to fetch "FIRST_NAME" from the Worker table in upper case. **4marks**

2b. Write an SQL query to print the first three characters of FIRST_NAME from the Worker table.
      4marks

2c. Write an SQL query to fetch unique values of DEPARTMENT from the Worker table.

   4marks

2d. Write an SQL query to find the position of the alphabet ('a') in the first name column 'Amitabh' from the Worker table
   4marks

2e. State and explain the most two common database recovery in SQL
   4marks

Question Three
3a. State and explain five (5) advantages of Database
10marks
3b. Outline five (5) transaction log includes before images and after images during data recovery
      5marks

3c. Mention five (5) security problems that are common to database systems
    5marks

Question Four
4a. Mention and explain five (5) basic objects in Microsoft Access.
    10marks
4b. Outline five (5) data types with given examples in Microsoft Access.
    5marks
4c. State the two (2) basic MS Access extension you know.
    2marks
4d. Mention three (3) types of Database you are familiar with
    3marks

Question Five
5a. State whether the following are valid or invalid identifier with reason (i) my-data (ii) Class, sell (iii) A# (iv) Avg Score (v) num.
        5marks
5b. Create a table for National Open University of Nigeria students in Computer Science with six different fields and ten records.
            10marks
5c. Outline five (5) properties of a Client/Server Architecture
    5marks