

Uganda Martyrs UNIVERSITY
FACULTY OF Business Administration and management
FINAL ASSESSMENT EXAMINATION

Name of Paper: Information systems and Databases

Paper Code: CSC 2103

Date: **12**, Dec, 2012

Time: 3hrs

Instructions:

Section B is compulsory

Attempt three questions from section one

Begin the answer of each question on a fresh page

Use of relevant Examples is Important

Adhere to all other Examination regulations

Do not write anything on this question paper

Section A

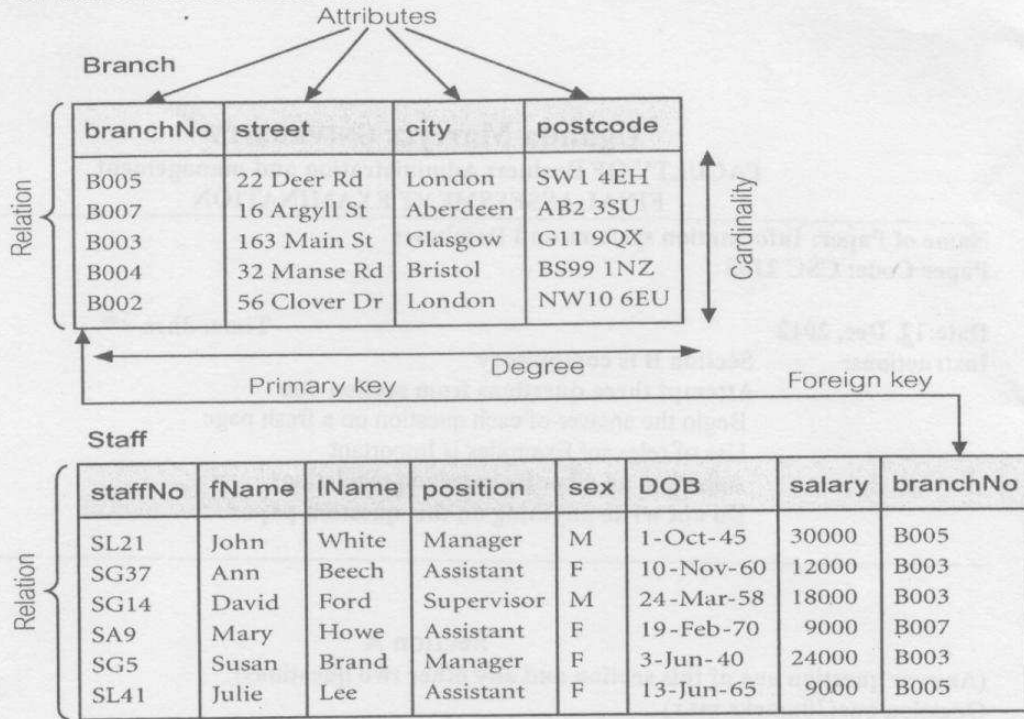
(Answer question one of this section and any other two questions)

Question one(30marks max)

- (i) Any information system in its effective operation must be supported by a database; this is where all the information needs of the organisation are catered for. This gives a database a great role in an information system environment, what is the purpose of the following in a database (@2marks)

- (a) DBMS
- (b) Row
- (c) Column
- (d) Primary key
- (e) Foreign key
- (f) SQL

- (ii) Below is an extract of two relations.



- What are the two relations described in the extracts above (2marks)
- Write the SQL statements that leads to formation the above relations (4marks)
- Write an SQL statement that will extract staffNo, salary, position from the staff relation(2marks)
- What SQL statement will have the attribute "position" out of staff relation(2marks)
- What possible relationship can exist between the two relations above(1mark)
- Write a statement that will collect John's salary to 40000(2marks)
- What is the degree for each of the relation above(2marks)
- How many data entries are there in each relations (2marks)
- What is the primary key for each of the relation above(2marks)

Question two

- Housing Finance Bank has identified a south African software development firm to upgrade their information system infrastructure and you are one of the members on the team to oversee this firm implement the system, what steps do you think this firm will take to finish this work successful to your satisfaction(15marks)
- What components do you want not to miss on this system(5marks)

Question three

- An information system environment is viewed in accordance to tasks performed at a particular user level. Discuss with reference to an enterprise information system of your choice what happens at each user level (10marks)
- What is the major importance of an information system? (4marks)
- Discuss the components that make up an information system (6marks)

Question four

- (a) The enterprises information drives business processes; this makes business information an important component in business. Shell Uganda limited houses an information system at their head quarters, what measures should they put in place to keep their information system backbone secure.(10marks)
- (b) Discuss the threats information systems faces and in which ways do such threats present them thelves (10marks)

Section B

All questions in this section are compulsory

1. You can add a row using SQL in a database with which of the following?
 - A.add
 - b. create
 - C. insert
 - d. make
2. The command to remove rows from a table 'CUSTOMER' is:
 - A. remove from customer ...
 - B. drop from customer ...
 - C. delete from customer where ...
 - D. update from customer ...
3. Which of the following is the original purpose of SQL?
 - A To specify the syntax and semantics of SQL data definition language
 - B To specify the syntax and semantics of SQL manipulation language
 - C To define the data structures
 - D All of the above.
4. A view is which of the following?
 - A A virtual table that can be accessed via SQL commands
 - B A virtual table that cannot be accessed via SQL commands
 - C A base table that can be accessed via SQL commands
 - D A base table that cannot be accessed via SQL commands
5. The command to eliminate a table from a database is:
 - A REMOVE TABLE CUSTOMER;
 - B DROP TABLE CUSTOMER;

C DELETE TABLE CUSTOMER;

D UPDATE TABLE CUSTOMER;

6. SQL data definition commands make up a(n) _____.

A. DDL

B. DML

C. HTML

D. XML

7. Which of the following is the correct order of keywords for SQL SELECT statements?

A. SELECT, FROM, WHERE

B. FROM, WHERE, SELECT

C. WHERE, FROM, SELECT

D. SELECT, WHERE, FROM

8 The result of a SQL SELECT statement is a(n) _____.

A. report

B. form

C. file

D. table

9. Which of the following do you need to consider when you make a table in SQL?

A. Data types

B. Primary keys

C. Default values

D. All of the above.

10. Find the SQL statement below that is equal to the following: SELECT NAME FROM CUSTOMER WHERE STATE = 'VA';

A. SELECT NAME IN CUSTOMER WHERE STATE IN ('VA');

B. SELECT NAME IN CUSTOMER WHERE STATE = 'VA';

C. SELECT NAME IN CUSTOMER WHERE STATE = 'V';

D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

11. SQL can be used to:

A. create database structures only.

B. query database data only.

C. modify database data only.

D. All of the above can be done by SQL.

12. The SQL statement that queries or reads data from a table is _____.

- A. SELECT
- B. READ
- C. QUERY
- D. None of the above is correct.

14. SQL is:

- A. A programming language.
- B. An operating system.
- C. A data sublanguage.
- D. A DBMS.

15. What type of system tracks inventory and related business processes across departments and companies?

- A) Strategic information systems
- B) Data processing systems
- C) Inventory management systems
- D) Supply chain management systems

16. What type of system tracks and analyzes transactions made by customers?

- A) Decision support systems
- B) Tactical systems
- C) Customer relationship management systems
- D) Knowledge base systems

17. What type of system tracks and analyzes all of the activities in the sales process?

- A) Customer information systems
- B) Decision support systems
- C) Sales force automation systems
- D) Sales process management systems

18. Which type of system includes all technology systems and software across an organization?

- A) Knowledge based systems
- B) Strategic information systems
- C) Enterprise resource planning systems
- D) Management information systems

19. Strategic information is required by

- a Middle managers
- b Line managers
- c Top managers
- d All workers

20. Tactical information is needed for

- a Day to day operations
- b Meet government requirements
- c Long range planning
- d Short range planning

21. Tactical information is required by

- a Middle managers
- b Line managers
- c Top managers
- d All workers

22. Operational information is needed for

- a Day to day operations
- b Meet government requirements
- c Long range planning
- d Short range planning

23. Operational information is required by

- a Middle managers
- b Line managers
- c Top managers
- d All workers

24. In a hospital information system the following type of information is strategic

- a Opening a new children's ward
- b Data on births and deaths
- c Preparing patients' bill
- d Buying an expensive diagnostic system such as CAT scan

25. A computer based information system is needed because

- (i) The size of organization have become large and data is massive
 - (ii) Timely decisions are to be taken based on available data
 - (iii) Computers are available
 - (iv) Difficult to get clerks to process data
- a (ii) and (iii)
 - b (i) and (ii)
 - c (i) and (iv)
 - d (iii) and (iv)

26. A management information system is one which
a is required by all managers of an organization
b processes data to yield information of value in tactical management
c provides operational information
d allows better management of organizations

27. Decision support systems are used for
a Management decision making
b Providing tactical information to management
c Providing strategic information to management
d Better operation of an organization

28. Decision support systems are used by
a Line managers.
b Top-level managers.
c Middle level managers.
d System users

29. Decision support systems are essential for
a Day-to-day operation of an organization.
b Providing statutory information.
c Top level strategic decision making.
d Ensuring that organizations are profitable.

30. When data is organised in a meaningful way, the results are called:

An expert system
Artificial intelligence
A database
Information

Merry christmas and happy new year

7