



UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

Business and Humanities Certificate Examinations

MAY-JUNE SERIES

PROGRAMME

PROFESSIONAL CERTIFICATE IN SOFTWARE ENGINEERING (PCSE)

PAPER NAME

DATABASE PROGRAMMING IN SQL SERVER

(THEORY)

PAPER CODE

PCSE115/1

YEAR I, SEMESTER 1

3 HOURS

10TH MAY 2021

INSTRUCTIONS TO CANDIDATES

1. This paper consists of **two** sections **A** and **B**.
2. Section **A** is compulsory and carries **20** Marks.
3. Section **B** consists of **six** questions, answer only **four** questions to carry **80** Marks.
4. All answers to each question should begin on a fresh page.
5. All questions carry equal marks.
6. **Do not** write on this question paper.
7. **All answers and rough work should be done in the official answer booklet provided.**
8. Read other instructions on the answer booklet.

SECTION A – (20 MARKS)

Answer all questions in this section

Question One

1. What is use of commit command in SQL?(2marks)
2. What is the difference between DROP and TRUNCATE? (2marks)
3. What is SQL comments? (2marks)
4. What is the syntax to add a record to a table? (2marks)
5. What is Auto Increment in SQL? (2marks)
6. What is the SQL Server Agent? (2marks)
7. What is group by clause? (2marks)
8. What do you mean by data redundancy? (2marks)
9. What is a unique key? (2marks)
10. Give two type of normalizations? (2marks)

SECTION B – (80 MARKS)

Answer only four questions in this section

Question Two

What is an Index? (2marks)

- 1(a) what are all the different types of indexes? Explain Each. (12marks)
- 1(b) what are the advantages of having an index on the SQL Server? (6marks)

Question Three

What are constraints? (2marks)

- 2(a) why do we use SQL constraints? (2marks)
- 2(b) which constraints we can use while creating a database in SQL? (10marks)
- 2(c) advantages of using constraints.(6marks)

Question Four

What are transactions? Explain (4marks)

- 3(b) Mention and explain any 4 types of transaction controls (8marks)
- 3(c) Mention and explain any 4 types of transaction properties (8marks)

Question Five

4) What is primary and foreign key? (4marks)

4(b) Difference between primary and foreign key. (16marks)

Question Six

5) define the character and case manipulation functions? (4marks)

5(b) what are the different character manipulation functions explain each? (16marks)

Question Seven

6) Define keywords in sql server? (2marks)

6(a) Explain the any six keywords with its syntax (18marks)

END