NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES ON DEMAND VIRTUAL EXAMS FOR July, 2020 EXAMINATIONS

COURSE CODE: **CIT 341 Data Structures** COURSE TITLE: TIME ALLOWED: 3 Hours

a. What is an expression? (5 Marks)
b. What are the main primitive operations and the functions? (4 Marks)
c. What could be to referred as blocks? (5 Marks)
2a. What do you understand by year the state by List the State of the St

b. List the Single Data Type classification c. What is an Abstract Data Type

3a. What is an Array? (4 Marks)

b. Operators are special symbols that perform specific operations on one, two, or three .eft operands, and then return a result. List the functions of the operators below. (5 Marks)

Operators Precedence

Postfix

Multiplicative

Additive

Shift

Equality

c. Describe garbage collection (5marks)

4a. State the main advantage of the buddy system? (4 Marks)

b. Exhaustively define Data Structure (4 Marks)

c. With explanation classify data structure (6 Marks)

5a. List at least five commonly used type parameter names. (5 Marks) 5b. What other primitive operations could be classified as additional operations and what are their functions? (4 Marks) 5c. Mention 4 common types of operators, stating their functions.(4 Marks)

6a. What is an algorithm with regards to data structure? (5 Marks)6b. What is a Hash Table? (5 Marks)6c. ExplainTwo important ways to characterise the effectiveness of an algorithm (4 Marks)

Downloaded from noungeeks.com 7a. Explain Memory Allocation Process? (5 Marks)