

# CMSC 256 Final Exam Terms 2024

## Questions & Answers. Already Graded A+

10. Acceptance Testing - ANSTesting that is carried out by the client company rather than the developers

11. Integration Testing - ANSTesting done on classes that need to work together to assure that they provide the required combined functionality

12. System Testing - ANSTesting to assure the entire system meets the requirements for that system

13. Unit Testing - ANSTesting of methods or functions of a program under development

Binary Search - ANS-Important for the data to be sorted

-Looks for a value but splitting the data in half multiple times

-Determines whether the value occurs in the first or second half

Binary Search tree time efficiency - ANSO(n) test

Breadth-First Traversal - ANSKinda like level-order traversal but for graphs

Bubble sort - ANSCompares the two elements side by side

Cycle - ANSis a path that begins and ends at the same vertex

Depth - First Traversal - ANSKinda like Preorder, inorder, postorder traversals but for graphs

Encapsulation - ANS a programming philosophy that promotes protecting data and hiding implementation in order to preserve the integrity of data and methods

Generics - ANScreation of programming constructs that can be used with many different types

Hashing - ANSConsists of a

- o Hash code

- o Compression Function

Heap - ANS a tree-based data structure using an array