

WGU Foundations-of-Computer-Science Reliable Test Preparation | Certificate Foundations-of-Computer-Science Exam

WGU D311 OA Final Exam/ WGU D311 Microbiology Objective Assessment Final Exam Newest 2025/2026 Actual Exam Complete 260 Questions And Correct Detailed Answers (Verified Answers) | Already Graded A+||Brand New Version!!

What is the significance of microorganisms containing a thick coat of peptidoglycan within the cell wall? - ANSWER Microorganisms containing a thick coat of peptidoglycan within the cell wall are typically classified as gram-positive bacteria.

Why are viruses considered acellular? - ANSWER They cannot reproduce without a host.

What is the defining characteristic of eukaryotes? - ANSWER They have a nucleus.

Which microorganism can cause vaginal yeast infections and oral thrush? - ANSWER Fungi

Why can it be difficult to determine the etiologic agent of a disease? - ANSWER Some signs and symptoms can be caused by many different etiologic agents.

What kind of staining technique is the acid-fast stain? - ANSWER

A doctor prescribed antibiotics for a patient complaining of runny nose, fever, and aches and pains. Which type of infection did the doctor suspect? - ANSWER The doctor likely suspected a viral infection because antibiotics are not effective against viral infections.

A healthcare professional is treating a patient who developed a yeast infection after taking antibiotics. What type of medication should be prescribed to this patient? - ANSWER Antifungals

Which structure promotes motility in Proteus, Shigella, and Salmonella species, all of which can cause serious disease in humans? - ANSWER Presence of flagella

Which bacterial virulence factor allows a strain to resist phagocytosis, increasing the organism's virulence? - ANSWER Capsule production

Why is treating Haemophilus influenzae difficult? - ANSWER The capsule is antiphagocytic.

How do pilli aid pathogens in causing disease? - ANSWER They cause pathogens to adhere to host cells.

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WGU Foundations of Computer Science Sample Questions (Q60-Q65):

NEW QUESTION # 60

What is the correct way to represent a boolean value in Python?

- A. True
- B. "True"
- C. "true"
- D. true

Answer: A

Explanation:

Python has a built-in boolean type named `bool`, which has exactly two values: `True` and `False`. These are language keywords/constants and are case-sensitive. Therefore, the correct representation of a boolean value is `True` (capital T, lowercase rest) or `False` (capital F). This is consistently taught in introductory programming textbooks because it affects conditional statements (`if`, `while`), logical operations (`and`, `or`, `not`), and comparisons.

Option A, `"True"`, is a string literal, not a boolean. While it visually resembles the boolean constant, it behaves differently: non-empty strings are "truthy" in conditions, but `"True" == True` is false because they are different types (`str` vs `bool`). Option B, `"true"`, is also a string, and it differs in casing as well. Option D, `true`, is not valid in Python; it will raise a `NameError` unless a variable named `true` has been defined.

Textbooks also stress that boolean values often result from comparisons, such as `x > 0`, and that booleans are a subtype of integers in Python (`True` behaves like 1 and `False` like 0 in arithmetic contexts). Still, their primary use is representing logical truth values for control flow and decision-making.

NEW QUESTION # 61

What is the time complexity of a quicksort algorithm?

- A. $O(\log n)$
- B. $O(1)$
- C. $O(n)$
- D. $O(n \log n)$

Answer: D

Explanation:

Quicksort is a divide-and-conquer sorting algorithm. It works by selecting a pivot element, partitioning the array into two subarrays (elements less than the pivot and elements greater than the pivot), and then recursively sorting those subarrays. In the average case, the partition step splits the array into roughly equal halves, so the recurrence is commonly written as $T(n) = T(n/2) + T(n/2) + O(n)$, where $O(n)$ is the cost of partitioning. This solves to $O(n \log n)$, which is why quicksort is widely taught as an efficient general-purpose sorting method.

However, textbooks also emphasize that quicksort has a worst-case time complexity of $O(n^2)$.

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