


Exam WGU Foundations-of-Computer-Science Details | Braindumps Foundations-of-Computer-Science Pdf

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Faculty of Engineering/ Technology
Computer Engineering B.Tech.
SEM: 4 **MU FINAL EXAM/ MU FINAL REMEDIAL** **MAY: 2024**

Subject: - **Advanced Web Technology (01CE0412)** Date: 03/05/2024
Total Marks: 100 Time: 12:30pm to 03:30pm

Instructions:
1. All Questions are Compulsory.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Do not write/sign/indication/tick mark anything other than Enroll No. at a specific place on the question paper.

Question: I.

(a) Objective MCQ (No. of Questions 10) [10]

1. Find the incorrect query in MongoDB.
(A) db.collection.find() (C) db.collection.deleteAll()
(B) db.collection.insertOne() (D) None of the above
2. Which command is used to execute an angular application?
(A) npm start (B) ng serve --open (C) ng file_name (D) node file_name
3. Angular CLI stands for _____
(A) Angular command-line interceptor (C) Angular command-line interface
(B) Angular command line (D) Angular command-line user interface
4. Which command is used to execute React App?
(A) node file_name (C) npx create-react-app file_name
(B) npm i react-app (D) npm start
5. Which command is used to install expressJS?
(A) npm start express (C) npm install express
(B) node start express (D) node install express
6. In Angular, what is the correct syntax for two-way data binding using ngModel?
(A) [ngModel] (B) (ngModel) (C) [(ngModel)] (D) |(ngModel|)
7. Which of the following is not component of Redux?
(A) Reducer (B) Actions (C) Store (D) Router
8. Columns in RDBMS is called _____ in MongoDB.
(A) Collections (B) Rows (C) Documents (D) Fields
9. Which of the following statements is/are true in ES6?
(A) var is function scoped. (C) Both a and b
(B) let is block scoped. (D) None of the above
10. How do you import an ES6 module named "math" that exports a function called "add" from another file?
(A) import { add } from "math"; (C) include("math").add;
(B) require("math").add; (D) import "math" as add;

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WGU Foundations of Computer Science Sample Questions (Q59-Q64):

NEW QUESTION # 59

```
print(20 # 5)
```

What will the output be of this line?

- A. Syntax Error
- B. 20 + 5
- C. #25
- D. no output

Answer: D

Explanation:

In Python, the # character begins a comment. Everything from # to the end of the line is ignored by the interpreter and is not executed. Therefore, the line `# print(20 # 5)` produces no output because it is a comment, not an executable statement. This is a standard concept in programming language textbooks: comments are for humans, not for the machine, and they are used to document code, explain intent, temporarily disable statements during debugging, or leave notes about assumptions and design choices.

Even though the line contains an unusual symbol #, it does not matter here, because the interpreter never tries to parse the commented text. If the # were removed, then Python would attempt to parse `print(20 # 5)`, and since # is not a valid Python operator, that would indeed trigger a syntax error. But with the leading #, the entire line is inert.

Option A is incorrect because nothing is evaluated. Option C is incorrect because comments are not printed; they remain only in the source code. Option D is incorrect for the commented version of the line, since Python does not check comment contents for syntax. Thus, the correct result is no output.

NEW QUESTION # 60

What is the first step in the selection sort algorithm?

- A. Find the highest value and the lowest value in the list.
- B. Sort the list in descending order.
- C. Determine the lowest value starting from the first position.
- D. Swap the first and last elements.

Answer: C

Explanation:

Selection sort works by growing a sorted portion of the list one element at a time. The algorithm conceptually divides the array into two regions: a sorted prefix on the left and an unsorted suffix on the right. At the beginning, the sorted prefix is empty and the entire list is unsorted. The first step is to consider position 0 as the target location for the smallest element. The algorithm scans the unsorted region (initially the whole list) to find the smallest value and records its index. That action is exactly what option C describes: determine the lowest value starting from the first position.

After identifying the minimum element, selection sort swaps it into position 0 (if it isn't already there). Then it repeats the process for position 1, scanning the remaining unsorted suffix to find the next smallest element, swapping it into place, and so on. Textbooks emphasize that the key characteristic of selection sort is the repeated "select min (or max) from unsorted region and place it into the sorted region." Option A is not the standard first step; finding both min and max is unnecessary. Option B describes an unrelated swap that doesn't ensure progress toward sorting. Option D is not a "first step" but rather a different ordering goal; selection sort can be adapted for descending order, but the canonical version begins by selecting the minimum for the first position.

NEW QUESTION # 61

What is the main advantage of using NumPy arrays over regular Python lists for data analysis?

- A. NumPy arrays can perform calculations over entire collections of values.
- B. NumPy arrays can bring different types into the array at the same time.
- C. NumPy arrays can only hold elements of the same type.
- D. NumPy arrays can concatenate lists by default.

Answer: A

Explanation:

The primary advantage of NumPy arrays in data analysis is their support for fast, vectorized computation over whole collections of numeric data. A NumPy `ndarray` stores elements in a contiguous memory block with a single, fixed data type, enabling efficient low-level operations implemented in optimized C/Fortran code. As a result, expressions like `arr + 5`, `arr * arr`, or `np.mean(arr)` operate over the entire array without explicit Python loops. This style is commonly called **vectorization**, and it is a central theme in scientific computing textbooks because it is both clearer to read and significantly faster for large datasets.

Option A describes a property of Python lists, not NumPy arrays. Python lists can mix types freely, but this flexibility comes with overhead. Option B is true-NumPy arrays typically hold a single dtype-but it is not the main advantage; it is more of an implementation feature that enables speed and memory efficiency.

Option D is not a defining advantage; both lists and arrays can be concatenated, and NumPy provides dedicated functions such as `np.concatenate`, but concatenation is not the core reason NumPy dominates data analysis workflows.

Because NumPy operations are applied element-wise across entire arrays and can leverage CPU vector instructions and efficient memory access patterns, they form the foundation for higher-level tools like pandas, SciPy, and many machine learning libraries. This is why the best answer is that NumPy arrays can perform calculations over entire collections of values.

NEW QUESTION # 62

What is the purpose of user management and access control in a networked environment?

- A. To ensure all users have the same level of access to resources
- B. To establish permissions and monitor resource usage
- C. To restrict all users from accessing confidential documents
- D. To provide unlimited access to all network resources

Answer: B

Explanation:

In a networked environment, user management and access control exist to ensure that resources are used securely, appropriately, and accountably. The core idea is authorization: defining what each user (or group of users) is allowed to do-read files, modify data, access applications, administer systems, and so on. This is commonly guided by the principle of least privilege, which states that users should receive only the permissions necessary to perform their tasks. Proper access control reduces the damage from mistakes and limits the impact of compromised accounts.

User management also includes authentication support (ensuring a user is who they claim to be) and administrative functions such as creating accounts, assigning roles, revoking access, and enforcing policies (password rules, multi-factor authentication requirements, session timeouts). In many systems, access control is implemented through models like discretionary access control (DAC), role-based access control (RBAC), or mandatory access control (MAC), each with different security properties.

Option B correctly reflects this: the goal is to establish permissions and to monitor or audit usage (logging access, tracking changes, detecting suspicious behavior). Option A is wrong because equal access is rarely secure or practical. Option C is the opposite of secure practice. Option D is too absolute:

systems typically restrict some users from some confidential resources, not all users from all confidential documents.

NEW QUESTION # 63

What is the component of the operating system that manages core system resources but allows no user access?

- A. The kernel
- B. The File Explorer
- C. User interface layer
- D. Device driver manager

Answer: A

Explanation:

The kernel is the central component of an operating system responsible for managing core system resources. It controls CPU

scheduling, memory management, process creation and termination, device I/O coordination, and system calls-the controlled interface through which user programs request services. In operating systems textbooks, the kernel is described as running in a privileged mode (often called kernel mode or supervisor mode), which restricts direct user access for security and stability. User programs typically run in user mode and cannot directly manipulate hardware or critical OS structures; instead, they must request operations via system calls, which the kernel validates and executes.

This separation prevents accidental or malicious actions from crashing the entire system or compromising other processes. For example, a user application cannot directly write to arbitrary memory addresses or reprogram devices; the kernel mediates access and enforces protection boundaries. This model is foundational to modern OS design and underpins features like virtual memory, access control, and multitasking.

File Explorer and the user interface layer are user-facing components that provide interaction and file browsing; they are not the privileged core resource manager. "Device driver manager" is not typically the name of a single OS component; while drivers and driver subsystems exist, they operate under kernel control and are part of the kernel or closely integrated with it.

Therefore, the OS component that manages core resources while disallowing direct user access is the kernel.

NEW QUESTION # 64

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