

4900 Quiz 3 Topics

The quizzes will be partly closed book and closed notes. The test will be a combination of multiple choice, multiple answer and short answer questions. Some of the questions will cover basic concepts and others will be reviewing or creating python code snippets to solve a problem. Once you have completed the closed book closed section and must create code snippets you will have access to the internet, code editors etc. However each student must complete their own work without help from others.

Closed Book Closed Notes Part of Quiz 3: Question topics for Quiz 2 can include:

1. Be able to explain the differences between integer and floating point data types for numbers in python,
2. Explain what causes floating point errors and how to fix floating point errors in python
3. Explain what the frequently used standard math functions are and how they are used.
4. Given snippets of code, select the correct code to properly format numbers using the format method.
5. Explain what the python locale module is and how it might be used.
6. Select the correct code snippet for problems involving the locale module.
7. Given code snippets, select the correct outcome of using the round() function.
8. Explain the difference between floating point and decimal numbers.
9. Given code snippets, select the correct snippet involving the use of the decimal module
10. Explain how to import the current date and time into your program.
11. Given date and time output in a program, select from code snippets the one that created the correct date and time.
12. When requesting a user to input a date or time, the input is generally done by accepting a string. Select the correct code which converts this string into a date or time object that can be used in a program.
13. Explain how to correctly format dates and time printed in program reporting results.
14. Explain what the timedelta object is and how it is used in python programs.
15. Given code snippets involving a span of time, select the correct code snippet to solve the problem.
16. Explain how to correctly compare datetime objects.
17. Explain what continuous integration and continuous delivery means in agile development projects and why they are valuable.

Skill demonstration part of the exam.

Unlike the closed book part of the quiz, you will be given time to complete 1 small python program. You will have all the resources of the internet and you may use PyCharm to develop and test your code. It will likely be similar to the samples we have used in class. It is important to practice with these samples before you come to class.

For quiz 3 you will be given a page of a site and you will create a sample test case of entering new information into form on the site and submitting the data.

