

Endsem SAFE Quiz

- Syllabus
 - Basic Python
 - Advanced Python (Numpy + Matplotlib)
 - GDB, Make
 - Latex
 - Spreadsheet
 - Doxygen
- Correct answers are already marked by a tick or bold dot, except for Q3, where the correct answer is in green.



Exit

Q1 of 10

Q2 of 10

Q3 of 10

Q4 of 10

Question: 1

Marks: 1.0 / 1.0

Which tag is used in doxygen to provide a description of a file or function?

- ☐ “@file”
- ☒ “@brief”
- ☐ “@desc”
- ☐ “@para”

Answer Explanation:





Exit

Q1 of 10

Q2 of 10

Q3 of 10

Q4 of 10

Question: 2

Marks: 1.0 / 1.0

Which of the following is true of Latex? Select all that apply.

- ☐ The .bbl file contains entries such as @book, @article etc
- ☐ `\emph{argument}` always uses italicized font to emphasize text
- ☒ `\begin{itemize}` uses a bulleted list
- ☒ `\begin{equation}` method not only prints the equation in a newline but also numbers it.

Answer Explanation:





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Q2 of 10

Q3 of 10

Q4 of 10

Q5 of 10

Question: 3

Marks: 0.0 / 1.0

Which of the following is true of spreadsheets? Select all that apply.

-
- ☐ Command Ctrl+" shows all the formulas on a spreadsheet
 - ☒ "count" function counts cells with numbers as well as character/strings
 - ☒ "IF" function (=IF) has 3 arguments (not countif or sumif, just plain if)
 - ☐ In "vlookup", the key (i.e. lookup value) can be any column in the specified table array

Answer Explanation:





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Q3 of 10

Q4 of 10

Q5 of 10

Q6 of 10

Question: 4

Marks: 1.0 / 1.0

Which of the following is true of debugging? Select all that apply.

- ☐ When using assertions in a program, the program stops with an informational message whenever the asserted condition passes
- ☐ Command “run” takes you from one breakpoint to the next
- ☒ “print” command not only prints a variable, but can be used to evaluate expressions, reassign variables
- ☐ To use gdb, when compiling you need to use the -gdb flag (e.g. g++ -gdb -o test test.cpp)

Answer Explanation:





Exit

of 10

Q4 of 10

Q5 of 10

Q6 of 10

Q7 of 10

Question: 5

Marks: 1.0 / 1.0

Which of the following is true of python? Select all that apply.

-
- ☐ Python is a compiled language
 - ☒ Indentation is used to define a block of code
 - ☐ Single line comments use %
 - ☒ “subplot” command in matplotlib takes 3 arguments

Answer Explanation:





Exit

of 10

Q5 of 10

Q6 of 10

Q7 of 10

Q8 of 10

Question: 6

Marks: 1.0 / 1.0

Which of the following is true of debugging? Select all that apply.

- ☐ The command “list” shows where the current breakpoints are
- ☐ The command “step” will step over function calls
- ☒ The command “backtrace” prints the current functions on the stack
- ☒ Profiling is enabled as follows via the -pg flag (e.g.) `g++ -pg -o profile profile.cpp`

Answer Explanation:





Exit

of 10

Q6 of 10

Q7 of 10

Q8 of 10

Q9 of 10

Question: 7

Marks: 1.0 / 1.0

Which among the following allows duplicate members?
Select all that apply.

-
- ☒ List
 - ☒ Tuple
 - ☐ Set
 - ☐ Dictionary

Answer Explanation:



Exit

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Q7 of 10

Q8 of 10

Q9 of 10

Q10 of 10

Question: 8

Marks: 1.0 / 1.0

What is the output of below code?

```
import numpy as np  
a = np.arange(10)  
print(a[2:5])
```

☒ [2,3,4]☐ [0,1,2]☐ [5,6,7]☐ [2,4,6]

Answer Explanation:





Exit

Q7 of 10

Q8 of 10

Q9 of 10

Q10 of 10

Question: 9

Marks: 1.0 / 1.0

Which of the following is true of make? Select all that apply.

- ☐ Against every target, dependencies MUST be specified
- ☐ make command looks for a file named cmake
- ☒ Adding the flag -k when running make helps continue running commands even in the face of errors
- ☐ In the makefile, commands need to start with a space

Answer Explanation:





Exit

Q7 of 10

Q8 of 10

Q9 of 10

Q10 of 10

Question: 10

Marks: 1.0 / 1.0

How many cells are covered by the range C4:D7 in a spreadsheet?

8

Answer: 8.0 - 8.0**Answer Explanation:**