



## GIS Python Exam 2

Study online at [https://quizlet.com/\\_gtrzut](https://quizlet.com/_gtrzut)

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|---|--|
| 1. Icons in ArcGIS Pro for Python Script  | scroll   |
| 2. Icons in ArcGIS Pro for Built-in tools   | pathway model  |
| 3. Icons in ArcGIS Pro for Toolbox  | toolbox  |
| 4. Icons in ArcGIS Pro for Toolset  | toolbox with a hammer  |
| 5. Icons in ArcGIS Pro for Built-in script  | Hammer (written by esri)   |
| 6. Python code required to use arcpy - the python package written by Esri   | Import arcpy   |
| 7. The input and output of geoprocessing functions are called   | Parameters   |
| 8. For Esri geoprocessing functions, how required and optional parameters are indicated in ArcGIS Pro and in the Esri documentation | - * = required<br>- No * = optional or in {} in the documentation  |
| 9. Parameters properties (5 things)   | - Name<br>- Label<br>- Type (type of data to be expected)<br>- Direction ( in or output)<br>- Required (or optional)   |
| 10. When using a geoprocessing function in python, you can choose to use the parameter names or not.                                | - If you do not use the parameter names, the parameter values must be in the same order as shown in the function documentation.<br>- If you are not using the parameter names and need to skip |



optional parameters, use "", keyword None, or "#" to skip the unneeded optional parameters.

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11. Only base names need to be specified in geoprocessing functions for input and output datasets \_\_\_\_  
\_\_\_\_
- 
12. The \_\_\_\_\_ is set to the File Geodatabase created for the ArcGIS Pro Project by default. The \_\_\_\_\_  
\_\_\_\_\_ is used to set the workspace in python.
- 
13. When a script is used within a Toolbox in ArcGIS Pro, what is the code to get input from the user.
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14. When a script is used within a Toolbox in ArcGIS Pro, what is the code to send a message to the user.
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15. For what reasons would you send messages to a user. (3 things)
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16. When a script is used within a Toolbox in ArcGIS Pro, what is the data type of parameter in which the user will select a layer from the table of contents.
- 
17. For the geoprocessing tools used in Project 2, know what the function does.  
Select Layer by Attribute
- 
- 18.

when the workspace is set.

workspace  
environmental model

`arcpy.GetParameterAsText(0)`

`arcpy.AddMessage("your message")`

- Status of the script
- Error message
- What is happening, what is next, the script is completed

Feature Layer

selects feature if a attribute matches



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- For the geoprocessing tools used in Project 2, know when you have another if you  
what the function does. have a layer that is intersect-  
Select Layer by Location ing or is rear by
- 
19. For the geoprocessing tools used in Project 2, know creating a polygon in relation  
what the function does. to a feature  
Buffer
- 
20. For the geoprocessing tools used in Project 2, know creating a new file based on  
what the function does. two different layers  
Clip
- 
21. For the geoprocessing tools used in Project 2, know Enabling a file as if it was in  
what the function does. the map  
Make Feature Layer (NOT ON EXAM)
- 
22. For the geoprocessing tools used in Project 2, know coping features to a new file  
what the function does.  
Copy Feature
- 
23. For the geoprocessing tools used in Project 2, know counting how many features,  
what the function does. so you can see what was se-  
Get Count lected
- 
24. For the geoprocessing tools used in Project 2, know adding to the feature table  
what the function does.  
Add Field
- 
25. For the geoprocessing tools used in Project 2, know calculating a new field  
what the function does.  
Calculate Field
- 
26. calculating based on area,  
link, quadrant



For the geoprocessing tools used in Project 2, know what the function does.

### Calculate Geometry Attributes

- 
27. When fields are used in a Calculate Field expression, "!"blank!" the field name must be surrounded by what
- 
28. Once you add a script to a Toolbox in ArcGIS Pro, you can you still make changes to the script. Yes, You can still make changes to the script after its added to the tool box
- 
29. Python code for geoprocessing functions start with Starts with arcpy.
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30. How to create a custom function. - def function\_name (parameters1, parameter2):  
code to execute  
code to execute  
return value
- 
31. How to call a custom function. Function\_name (Parameters)
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32. In ArcGIS Pro, how to copy the python code for a geoprocessing function next to run click drop down arrow and the copy python code
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