EEOS 472 – Programming for GIScience Applications – Spring 2011

Exercise 15A

Additional Instructions/Notes

1. For all exercises in this course, you will want to make a copy of the exercise .mxd to your H:\ space and open that, rather than using the one in the course data directory on S:\ because the exercises almost always involve customizing the project document, which you cannot do to the one on S:\, since you do not have write access there.

Question 15A-1 (2 marks)

What is interface inheritance (as opposed to class inheritance, which we have used previously)? From what class do all other classes inherit an interface?

Question 15A-2 (1 mark)

What four kinds of objects are involved in determining how a layer will look in a map?

Exercise 15B

Additional Instructions/Notes

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Question 15B-1 (2 marks)

What is contained in the Style Manager? How is this useful to someone making maps?

<u>Exercise 15C</u>

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19. One change made to ArcGIS in version 9.3 is the location of bookmarks, now in their own menu. Click the Bookmarks menu and click Downtown Wilson City.

Question 15C-1 (1 mark)

Under what circumstances might you write code to set up the legend (and its classes) for a layer, rather than asking the user to do it manually?

Question 15C-2 (2 marks)

In this exercise, we learned a new, shorter way to specify a color using RGB values. How many lines of code does this save? To illustrate this, write the lines of code that would have set the red, green, and blue values for pGreenLight in the old way (refer to Exercise 15A for example). Use correct ArcGIS VBA syntax.

<u>Exercise 16A</u>

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Question 16A-1 (2 marks)

Where can customizations to the ArcMap interface be saved? Where can they be saved for ArcCatalog? What does this mean for when we want to distribute or share ArcCatalog customizations?

Exercise 16B

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Question 16B-1 (1 marks)

Why might we want to use a GxObjectFilter to limit the kind and number of data sets that a user can select in a GxDialog (hint: imagine we have written some code and we need the user to point to a particular data set)?