Course Title: Introduction to GIS

Date: 21/5/2011 Time: 2 hours

Using Calculator (yes)

University of Palestine



Student No.: ______
Student Name: _____
College of Engineering
Using Dictionary (yes)

Q1- '	True or False: Mark T or F for the following statements (1 mark each)
1	In the Cartesian-Space Rectangular Coordinate System, the center of the earth is the origin (
2	Ellipsoid is the best fit for the earth surface ()
3	Geodetic latitude varies from -180 degrees to +180 degrees ()
4	Conformal projection preserve right angles between latitudes and longitude ()
5	Each raster grid cell can have more than one value ()
6	Spatial interpolation predict information for un-sampled locations ()
7	Population density can be best interpolated by IDW ()
8	Spline method of interpolation finds the optimal weight for each point ()
9	In conversion from vector to raster, data loses some accuracy ()
1	O. The larger cell size produces lower model accuracy ()
Q2.	Fill in the blank (2 marks each)
1	
	1. The following phenomena can be modeled by raster data
	The following phenomena can be modeled by raster data ——————————————————————————————————
	The following phenomena can be modeled by raster data
	The following phenomena can be modeled by raster data
1	2. GIS shape files should have the following file extensions:
1	
1	
1	
	2. GIS shape files should have the following file extensions:

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Final Exam Using Calculator (yes) **Total Marks: 40**

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14.	Spatial interpolation techniques are:	
15.	The followings are examples of dat that can be interpolated by Kriging method:	
: Sh	nort essay questions (3 marks each	<u>h)</u>
	Describe the difference between the shape file and the geo=database	<u>h)</u>
		<u>h)</u>
16.		h)
16.	Describe the difference between the shape file and the geo=database	<u>h</u>)
16.	Describe the difference between the shape file and the geo=database For the following types of feature classes write the main digits characteristics	<u>h)</u>
16.	Describe the difference between the shape file and the geo=database For the following types of feature classes write the main digits characteristics Long Integer: Short Integer:	
16.	Describe the difference between the shape file and the geo=database For the following types of feature classes write the main digits characteristics Long Integer:	

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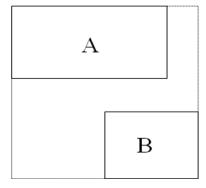


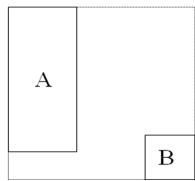
Final Exam
Total Marks: 40

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Q4 (6 marks)

18. For the following two shape files draw the intersection and the union, then complete the attribute tables for the intersection and the union?





ID	Landuse			
A	Urban			
В	Agriculture			

ID	Ownership
A	private
В	governmental

Intersection Shape		<u>Union Shape</u>			
	n attribute table:			ribute table:	
ID	Attribute		ID	Attribute	
A					
В					

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Q5	(8)	marks)

Given the following GIS files:

- Point shape file with topographic elevation (points indicating elevations from 10 to 100meters)
- Point shape file with temperature measurements (from 15 °C to 35 °C)

Using the functions of the **spatial analyst** and the **raster calculator**, explain the steps you need to do to select locations that satisfy the following characteristics:

- Elevation > 80 meters
- Slope < 0.02

Temperature < 25°C			

End of questions GOOD LUCK