Transportation Geography (Geo 310)	Name:
Dr. Paul Marr	

## Exercise 1: Basic Network Measurements

<u>Step 1:</u> Please construct a connectivity matrix using the map on page 2 and the table below. Remember that the upper and lower portions of the matrix must be symmetrical. Code direct connections between nodes with a 1 and all others with a o.

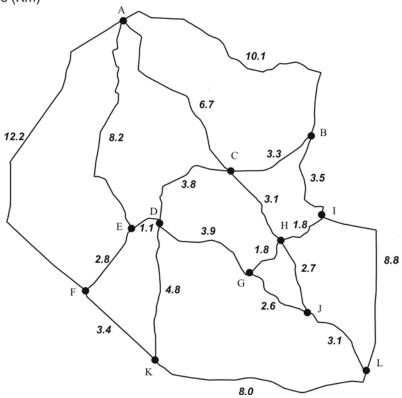
## **Connectivity Matrix**

							_					
	Α	В	C	D	E	F	G	Н		J	K	L
Α	0											
В		0										
C			0									
D				0								
E					0							
F						0						
G							0					
Н								0				
ı									0			
J										0		
K											0	
L												0

<u>Step 2:</u> Calculate the following indices for the above matrix. Write the equation and answers in the spaces provided. The area of the network is 120 km<sup>2</sup>. All distances are in km.

	Equation	Answer
Cyclomatic number (μ):		
Detour Index (Total Circuity):		
Network Density:		
Alpha (α):		
Gamma (γ):		
Beta (β):		
Min μ		
Max Circuits		
Eta (η)		

## Routes Distances (Km)



## Direct Distances (Km)

