NATIONAL UNIVERSITY OF LESOTHO

URBAN AND REGIONAL PLANNING/B Sc. HUMAN GEOGRAPHY SUPPLEMENTARY EXAMINATION

GES 4535: POPULATION GEOGRAPHY

JULY 2023	MARKS: 100	TIME: 3 HOURS
INSTRUCTIONS: Answer a use of diagrams.	any four questions. Where necessary ill	ustrate your answers with the
Describe the following:	ne measures of population structures	
(b) Describe any two	e advantages of Child/Woman ratio me disadvantages of the measure. Planners interpret the measure.	easure. [12] [8] [5] [25]
map shows and extend (b) Outline the five st	ription on Choropleth Maps. (The desc xamples of common choropleth maps) reps followed in construction of Chorop antages of Choropleth maps.	[6]
Censuses provide inform	ation that vital in determining the nee lanners use it for several planning decis	_
For each of the following related use.	Census Information, provide one (1) pos	ssible/potential spatial planning
(c) Educational Attair (d) Living quarters ch	abour force participation. Inment and Literacy	[5] [5] [5] [5] [5]

[25]

Question 4

Table 4.1 Life Table for Males in Urban Colombia,

A = a	b	have	la.	la da	bi	T	
Age Interval 0-1	hmx 0.0275	hqx 0.025485	100,000	hdx 2,549	hLx 98,155	Тх	ex
0-1	0.0273	0.025465	100,000	2,549	96,155		
1-5	0.0015	0.005848		570	388,305		
5-10	0.0006						
10-15	0.0007						
15-20	0.0037						
20-25	0.0059						
25-30	0.0056						
30-35	0.0052						
35-40	0.0055						
40-45	0.0054						
45-50	0.0067						
50-55	0.0088						
55-60	0.0139						
60-65	0.0213						
65-70	0.0338						
70-75	0.0514						
75-80	0.0781						
80-85	0.1129						
85+	0.1593	1.000000	15,681	15,681	98,347	98,347	6.3

Use Table 4.1 to answer questions (a) – (c)

(a) Use the computed age-specific mortality rates to determine probabilities of dying hqx for males aged 10-15 to 25-30. [4]
(b) Calculate hdx for ages 30-35 -40-45 [3]
(c) Determine the average number of years of life remaining at beginning of age interval (ex) for males aged 10-15 and 30-35 [8]
(d) Briefly explain any three major applications of the lifetables. [6]
(e) List any two important information is conveyed by the lifetable? [4]

Question 5

Table 5.1 Population Visible Minorities in Winnipeg

(25)

Neighbourhood	Total population	Visible minority population	Filipino	Black	Chinese
			2006	2006	2006
Agassiz	425	40	10	10	0
Airport	205	0	0	0	0
Alpine Place	3515	360	40	85	15
Amber Trails	2135	1040	450	0	15
Archwood	780	55	0	30	15
Armstrong Point	360	0	0	0	0
Beaumont	2360	295	45	40	10
Betsworth	4220	170	15	0	10
Birchwood	1890	155	90	0	10
Booth	5485	335	15	55	10
Broadway	5080	1370	360	440	80
Brockville	705	15	0	0	0
Brocklands	2255	395	330	15	0
Bruce Park	2165	80	10	20	10
Buchannan	2820	140	10	45	20
Burrows-Keevatin	2760	610	445	75	0
Burrows-Central	4805	1690	1255	55	65
Canterbury Park	5419	380	135	70	35
Centrennial	2225	645	230	210	115
Central Park	3555	1910	490	710	165
Central River	3145	240	45	25	40
Heights					
Central St.	6215	725	140	375	40
Boniface					
Chalmers	9475	1295	225	480	90
China Town	605	460	0	0	415
City of Winnipeg	625600	101875	36815	14185	12635

(a)	Use the information on Table 5.1 to compute the location quotients for the Filipino,
	Black and Chinese minorities in

a.	Beaumont	[5]
b.	Burrows Central	[5]
c.	Centrennial	[5]
torni	rot the regults obtained in (a)	[[]

(b) Interpret the results obtained in (a). [5](c) If you were a city planner in Winnepeg, how would you advice the Government in

relation to allocation of resources in the three neighbourhoods. [5]

[25]

Question 6

Table 6.1

Point	<i>X</i> i	<i>Y</i> i	
Α	2.8	1.5	
В	1.6	3.8	
С	3.5	3.3	
D	4.4	2.0	
E	4.3	1.1	
F	5.2	2.4	
G	4.9	3.5	

- (a) Use Table 6.1 to compute the x and y coordinates of the centroid. [5]
- (b) Compute standard distance deviation for the data [5]
- (c) Plot and appropriately label the centroid computed in (a) above. [3]

Table 6.2

Point	<i>X</i> i	Yi	Weight
1	100	100	80
2	100	150	170
3	150	150	300
4	150	200	190
5	200	200	450

(d) Use Table 6.2 to calculate the weighted mean centre.

- [5]
- (e) Name and provide a brief description of any measure of geographic distribution that can be used to identify the extent to which features are concentrated or dispersed around the geometric mean centre. The description should include the manner in which the measure should be interpreted. [7]

[25]