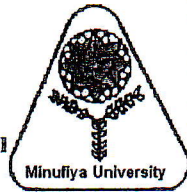


Menoufiya University
Faculty of Engineering
Shebin El-Kom
Second Semester Examination
Academic Year: 2013-2014



Department: Architectural Eng.
Year: 3rd year
Subject/Code: Urban Planning /
ARC 303 التخطيط العمراني
Time Allowed: 4 hours
Date: 31/5/2014

Allowed Tables and Charts: (None)
This exam measures ILOS no. :(a1, a12, b7, c4, d3)

Total Mark

[200 Marks]

Answer all the following Questions

Marks

Question (1) Compare: [60]

- (a) Random sampling & Systematic sampling & Stratified sampling. [15]
- (b) Mean & Median & Mode. [15]
- (c) Nominal & Ordinal & Interval. [15]
- (d) Constrained Gravity Model & Unconstrained Gravity Model. [15]

Question(2) [140]

(a) Choose the correct answer from the following and comment: [60]

- 1- Needs variable are defined through
 - a. Problem statements
 - b. Goal statements
 - c. Monitoring
 - d. Control Variables
- 2- Variables measured onscale are those whose various possible answers are categories of different names.
 - a. Dichotomous
 - b. Nominal
 - c. Ordinal
 - d. Interval
- 3- Variables put in a rank order are measured on scale.
 - a. Dichotomous
 - b. Nominal
 - c. Ordinal
 - d. Interval
- 4- Preferences and priorities are often measured onscale.
 - a. Dichotomous
 - b. Nominal
 - c. Ordinal
 - d. Interval
- 5- Population stratified by profession is measured onscale.
 - a. Dichotomous
 - b. Nominal
 - c. Ordinal
 - d. Interval
- 6- Number of days a student misses class is a variable measured onscale.
 - a. Dichotomous
 - b. Nominal
 - c. Ordinal
 - d. Interval
- 7-sampling is used to take every kth element from the list.
 - a. Random
 - b. Systematic
 - c. cluster
 - d. Stratified

8-is used to insure the representativeness of sample, where it might otherwise be unlikely.

- a. Random b. Systematic c. cluster d. Stratified

9-sampling is very similar to stratified sampling, but groups that are defined are heterogeneous.

- a. Random b. Systematic c. cluster d. Stratified

10- You are interested in evaluating a program of a drug addiction center, and have drawn a random sample of 125 cases from its files. The percentage of successful cases is found to be 55 percent as compared to a standard of 60 percent. In this case calculated (Z) is :

- a. 1.14 b. 1.95 c. - 1.14 d. - 1.95 e. other answer

(b) : [40]

Intolerance is an issue in today's soccer. Ibrahim wanted to examine the relationship between being a member of an ultras or not and the club a fan support. His data is presented in a table below. Calculate χ^2 is.....?

club	Member of Ultras	Not member of Ultras	Total
Zamalk	126	99	225
Ahli	71	162	233
Total	197	261	458


(c) : [40]

Data in the following table present murder rates for three communities. Compute the total sum of squares, within sum of squares, and between sum of squares. Also calculate the E- Ratio.

	Murder Rates			total
	Community 1	Community 2	Community 3	
	4.3	5.1	12.5	
	2.8	6.2	3.1	
	12.3	1.8	1.6	
	16.3	9.5	6.2	
	5.9	4.1	3.8	
	7.7	3.6	7.1	
	9.1	11.2	11.4	
	10.2	3.3	1.9	
Sums	68.6	44.8	47.6	161
Means	8.58	5.6	5.95	20.13

Good Luck,,,,,

Cheer me! Professor.Dr. Ahmed O. El-Kholei ,
Professor.Faisal Abd El Maksoud ,

Dr. Ibrahim Sedki Ibrahim. 
Professor. Mahmoud Amin