

BONDO UNIVERSITY COLLEGE
SCHOOL OF HEALTH SCIENCES
KISUMU LC
THIRD YEAR END OF FIRST SEMESTER EXAMS
PSP 3314: SPATIAL ANALYSIS

SECTION A: answer ALL questions in this section (3 Marks each).

1. Explain the components you specify to the computer when creating a co-ordinate system
2. Describe three areas where you would apply trend analysis
3. Illustrate clip in vector overlay
4. Describe three disadvantages of using Global Positioning Satellites in collecting data
5. Illustrate raster structure for line, area and point
6. Explain a geographic phenomena
7. Explain the visual variables used in area representations
8. Give the limitations of maps as sources of information
9. Discuss three disadvantages of using spatial analysis in developing countries
10. What is the use of creating layers in spatial analysis?

SECTION B

Answer any TWO questions from this section (20 marks each)

1. Explain vector data cleaning operations (20 marks)
2. Discuss data quality in data base creation
3. Create a suitability map form this relation in vector overlay functions

Explain four applications of decision tables

Land use

G	G	F	F	F
G	G	G	F	F
G	G	G	F	F
L	L	L	F	F
L	L	L	F	F

L:Lake
F:Forest
G:Grass

Geology

S	S	S	S	S
S	S	S	S	S
A	A	A	A	A
A	A	A	A	A
A	A	A	A	A

S:Shale
A:alluvium

Decision Table

	Alluvial	Shale
Forest	Suitable	Unsuitable
grass	Unsuitable	Suitable
Lake	Unsuitable	Unsuitable

4. (a) Using illustrations explain the types of errors in vector operations (10 marks)
 (b) Explain the methods of correcting the errors (10 marks)