COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NANR304: GEOGRAPHICAL INFORMATION SYSTEMS

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2022

LECTURER: MS. B. BOLO

DURATION: 3 HOURS

INSTRUCTIONS

Do NOT write your name on the answer sheet.

Answer (fully) questions.

Begin your answer for each question on a new page.

Credit is given for neat, well-written and lucid work.

Answer ALL Questions in Section A

Answer ANY TWO Questions in Section B

SECTION A [COMPULSARY]

Section A: [50 MARKS]

1. What are the differences between spatial data and attribute data?   **(4)**
2. List five (5) elements of a Map layout and discuss their importance.   **(10)**
3. Discuss the advantages of vector GIS data compared to raster data.   **(6)**
4. What is a Geographical Information System?   **(5)**
5. Describe a typical application of GIS in an area of your choice. In your description, include a statement of the problem, how the data would be collected, analyzed, and how the results are best presented.   **(25)**

6. # Describe a typical application of GIS in an area of your choice. In your description,
7. # include a statement of the problem, how the data would be collected, spatially
8. # modelled, analysed, and how the results are best presented.

9. Describe a typical application of GIS in an area of your choice. In your description,

10. include a statement of the problem, how the data would be collected, spatially

11. modelled, analysed, and how the results are best presented.

SECTION B [CHOOSE TWO QUESTIONS]

Section B: [50 MARKS]

1.   Describe in details four (4) GIS Systems.   **(25)**

2.   All maps must have map scales to represent the ratio of an object on the ground and on paper. Explain in details three types of map scales with example**.   (25)**

3.   Information technologies and systems are important to the society, discuss the future of GIS technologies and systems to the society.   **(25)**

4. Give an overview of what GIS is, paying particular attention to: GIS definition, components of geographic data, feature spatial relationships, data organization, and GIS capabilities. **(25)**

5. Give an overview of what GIS is, paying particular attention to: GIS building blocks,

6. components of geographic data, feature spatial relationships, data organization, and GIS

7. capabilities.

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End of Examination Paper