



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2023_2 EXAMINATIONS__

COURSE CODE: ESM 407

COURSE TITLE: Geographic Information System.

CREDIT: 3 Units

TIME ALLOWED: 2 ½ Hours

Instruction: Attempt question number ONE (1) and any other FOUR (3) questions. Question number one (1) carries 22 marks, while the other questions carry (12) marks each.

1a) Briefly explain the following GIS concepts

Geo-referencing (5marks)

Spatial data capture (5marks)

Attributed data (4marks)

Projection (3marks)

1b) Identify the factors that can be attributed to the growth of GIS (5marks)

2) Elucidate on the use of GIS in Map production (12marks)

3) Write on the following strategies for enhancing successful GIS implementation (12marks)

Involving the management

Training and education

Implementation and follow-up plans

4a) Explain the AM/FM (Automated Mapping and Facilities Management) (4marks)

4b) Discuss the Types/Classes of Geographical Features (8marks)

5a) Explain the characteristics of Geographic features (6marks)

5b) Strategic planning in GIS implementation encompasses?(6marks)

6a) According to Burrough, 1986, GIS operations could be summarized as? (4marks)

6b) Enunciate on the value of Geographical data (8marks)