National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
APRIL, 2019_1 EXAMINATIONS

COURSE CODE: ESM 407
COURSE TITLE: Geographic Information System.
CREDIT: 2 Units
TIME ALLOWED: 2 Hours
Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

1a. Define GIS **(3marks)**
b. What is data updating? **(2marks)**
c. Outline the factors aiding the rise of GIS. **(8marks)**
d. Discuss the process of attribute data updating **(9marks)**

2a. What is hardware? **(1mark)**
b. List the factors to be considered for measuring quality of data. **(3marks)**
c. Examine the various GIS Hardware components and their functions **(8marks)**

3a. Explain the following as components of GIS
i)Hardware **(4marks)**
ii)Software **(4marks)**
b. Discuss the components of GIS in respect of data **(4marks)**

4a. Highlight the factors aiding the rise of GIS. **(8marks)**
b. Identify and discuss any four (4) determinants of a good quality storage device **(4marks)**

5a. What is geographic data? **(3marks)**
b. Discuss the process of attribute data updating **(9marks)**

6a. State the characteristics of Geographic features **(6marks)**
b. List the qualities of a good storage device **(6marks)**