

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja

FACULTY OF SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE

COURSE CODE: EMT 409 CREDIT UNIT: 2 TIME: 2:30MINS

POP EXAMINATION 2022_2 COURSE TITLE: GEOGRAPHIC INFORMATION SYSTEM

Question 1 and any other 3. Question 1(25 marks) and others (15marks)

- 1a). Using a well labelled diagram show how data can be integrated using GIS (10marks)
- 1b). Give an overview of the uses and applications of GIS in our society and daily lives (15marks)
- 2a). List the characteristics of the fields in an attribute database (2marks)
- 2b). Geographical features have some characteristics which the GIS technology uses to manipulate geographical data, discuss. (13marks)
- 3a). Define data editing(1mark)
- 3b). In a tabular form differentiate between manual digitizing and automatic scanning (14marks)
- 4). Discuss the following hardware components of a GIS (15marks)

Computer(4marks)

Input Devices(7marks)

Storage devices(1mark)

Output devices(3marks)

- 5a). Explain how an electronic scanner can be employed in the digitization or conversion of existing paper-based records, plans, maps and charts to digital format(7marks)
- 5b). Outline the traditional grouping of geographic features based on their geometric dimensions(4marks)
- 5c). List the key considerations that must be taken in discussing or determining the GIS procedure in any organization. (4marks)

- 6a). Outline why cartographic application is the foundation of GIS(3marks)6b). Write on map production and map making as cartographic functions of GIS (12marks)