



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2021_1 EXAMINATIONS

COURSE CODE: ESM 407

COURSE TITLE: Geographic Information System (GIS)

CREDIT: 3 Units

TIME ALLOWED: 2 Hours: 30 minutes

Instruction: Attempt question number ONE (1) and any other FOUR (4) questions. Question number one (1) carries 22 marks, while the other questions carry (12) marks each.

- 1a) Attempt an explanation of the view expressed by Huxhold, 1991 on GIS **(6marks)**
 1b) Outline the learning outcome acquired in learning about GIS **(9marks)**
 1c) Complete the following definition with the appropriate words **(7marks)**
 "A geographic information system is a _____ for _____, _____, and _____ that pertain to the surface of the earth. This is a broad definition . . . a considerably narrower definition, however, is more often employed. In common parlance, a geographic information system or GIS is a _____ of computer hardware and software specifically designed for the _____, _____, and use of _____."

- 2a) Outline the five major ways in which GIS introduces a cut across perspective for all areas of life **(5marks)**
 2b) What do the following questions depict in GIS **(2marks)**

QUESTION	ANSWER
Where is it?	
What has changed since?	
What spatial patterns exist?	
What if?	

- 2c) Highlight the goals of understanding geographical data **(5marks)**
 3) Discuss the historical evolution of GIS in the 80s and 90s **(12 marks)**
 4a) Discuss the contributions of John Snow to the development of modern GIS **(6marks)**
 4b) Fill in the missing words **(6marks)**
 Computerized _____ have been developed _____ in several related fields. The present status of GIS would not have been achieved without _____ between _____ such as _____, cadastral mapping, _____, thematic cartography, _____, _____, _____, _____, earth science, and _____.

- 5a) Discuss the role of the traditional geographical features in GIS **(4marks)**
 5b) Expatiate on the significance of geographical data as it relates to everyday living.

6) Mention 24 of the most common and widely used terms in GIS

(8marks)

(12marks)