

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF GEOGRAPHY

SECOND SEMESTER (2019/2020 SESSION) UNDERGRADUATE
EXAMINATION

COURSE CODE: GRY 340 (2 Units)

COURSE TITLE: Fundamentals of GIS

TIME ALLOWED: 2 Hours

INSTRUCTIONS: Answer Question **ONE** and any other **TWO**: Credit will be given for relevant but well labelled diagrams illustrations

- (1) GIS is the trending geospatial analysis and decision tool.
 - (a) Distinguish between GIS and remote sensing based on their aims.
 - (b) Highlight the merits and demerits of GIS.
- (2)
 - (a) Describe the two categories of spatial data used for GIS analysis.
 - (b) Discuss 5 attribute data that can be linked to GIS analysis of Nnamdi Azikiwe International Airport in Abuja.
- (3)
 - (a) Why is data considered a critical part of GIS?
 - (b) Give a concise description of network analysis in GIS data processing using one application example.
- (4) Explain the obvious sources of error in GIS data collection.
- (5) Discuss the four major categories of problems existing in linking GIS and remote sensing.