

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT OF INFORMATION AND MEDIA TECHNOLOGY

FIRST SEMESTER 2015/2016 EXAMINATION

COURSE CODE: CIT513

COURSE TITLE: Geographic Information System

CREDIT UNITS:

TIME ALLOWED: 2Hrs

COURSE LECTURER(S): Mrs. Faiza Babakano Jada

NUMBER OF QUESTIONS: 15 (Each question carries 4 marks)

NUMBER OF PAGES: 3 (INCLUDING THIS PAGE)

INSTRUCTIONS

- Answer all questions
- Do not use red pen
- Please use a clear handwriting
- This exam is closed book, closed notes, closed laptop and closed cell phone
- Please use non-programmable calculators only

- 1. Define GIS and explain its Evolution.
- 2. Explain 5 applications of GIS.
- 3. Explain Various Geographic Data Collection methods.
- 4. Differentiate between Raster Input & Vector Input.
- 5. Explain any two devices useful for input to GIS.
- 6. Explain 4 types of digitization error.
- 7. The vector model is extremely useful for describing discrete features, but less useful for describing continuously varying features such as soil type. Agreed? Why
- 8. Give three types of GIS applications with examples.
- 9. What is spatial analysis and how important it is to GIS?
- 10. List and explain any four categories of spatial analysis.
- 11. With the aid of a diagram differentiate between GIS and CAC.
- 12. There are many forms of output for a GIS. Give 4 examples
- List and explain three mechanisms(data structures) used for RASTER and VECTOR data storage
- 14. Explain the following terms
 - a. Overlay Analysis
 - b. Interpolation
 - c. Digitization
 - d. Vectorization and Rasterization
- 15. Answer the following
 - a. Explain the two types of data in GIS
 - b. Give the advantages and disadvantages of the types mentioned in a. above