



GWANDA STATE UNIVERSITY

FACULTY OF ENGINEERING AND ENVIRONMENT

DEPARTMENT OF GEOMATICS AND SURVEYING

**CARTOGRAPHY
EGS 3211**

Final Examination Paper

May 2023

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Dr. T. Mathe

INSTRUCTIONS

Answer **ALL** questions

QUESTION 1 **20**

- a) Describe and explain the process of cartographic communication. [10]
- b) Maps can be classified according to function or scale. In each of these classes, list the types of maps that make the category. [10]

QUESTION 2 **20**

- a) How has map production and interpretation changed in light of critical cartography and GIScience? (10)
- b) How can you go about your map making praxis in a more reflexive, inclusive manner? (5)
- c) How can you interpret and critique maps in a way that better illustrates their blind spots and the knowledge and powers that influenced their creation and interpretation? (5)

QUESTION 3 **20**

- a) How would you deconstruct the power relations inherent in Figure below? Was it created through a participatory or surveillant methodology? (10)
- b) How can maps influence our notions of belonging, nationality or linguistic background? (10)

QUESTION 4 **20**

“Interactive maps do not fit within the cartographic communication paradigm.” Do you agree or disagree with this statement? Write a short position paper that defends your position, using examples to support your position.

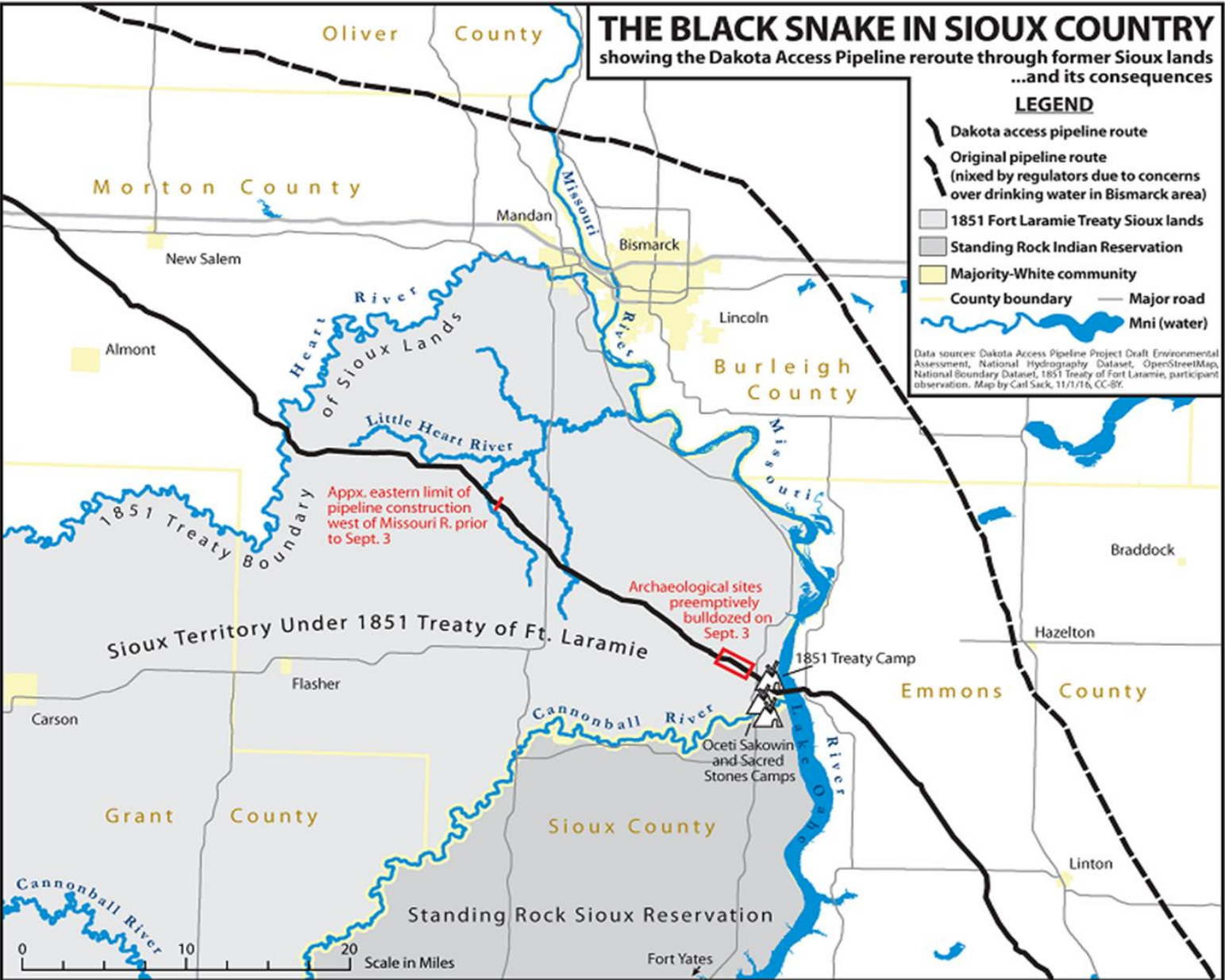
Question 5 **20**

What are the three important scientific and conceptual developments that influenced the development of geovisualization, and in which way these have been influential? Illustrate your arguments with examples.

END OF EXAMINATION

THE BLACK SNAKE IN SIOUX COUNTRY

showing the Dakota Access Pipeline reroute through former Sioux lands ...and its consequences



LEGEND

- Dakota access pipeline route
- Original pipeline route (nixed by regulators due to concerns over drinking water in Bismarck area)
- 1851 Fort Laramie Treaty Sioux lands
- Standing Rock Indian Reservation
- Majority-White community
- County boundary
- Major road
- Mni (water)

Data sources: Dakota Access Pipeline Project Draft Environmental Assessment, National Hydrography Dataset, OpenStreetMap, National Boundary Dataset, 1851 Treaty of Fort Laramie, participant observation. Map by Carl Sack, 11/1/16, CC-BY.

Appx. eastern limit of pipeline construction west of Missouri R. prior to Sept. 3

Archaeological sites preemptively bulldozed on Sept. 3

Sioux Territory Under 1851 Treaty of Ft. Laramie

0 10 20 Scale in Miles

