KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY
Guru Prasad Das School of Interdisciplinary and Vocational Studies
Home Assignment
PGCG
2023
FUNDAMENTALS OF GIS
Course Code: GI-01

Last Date of Submission is 10.01.2024

Total Marks= 50

[Assignments are required to be written in your own language. Copying in toto from the learning materials will carry less score]

A. Answer the following Questions (Answer in about 300 words)

10x5=50

Q1. What is Map Projection? Discuss in detail the commonly used map projections.

Q2. Write a very brief note on Components of geoinformatics.

Q3. Briefly describe the types and sources of geospatial data.

Q4. Write short notes on the Raster and Vector data.

Q5. Discuss the applications of geoinformatics in natural resources management.

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Guru Prasad Das School of Interdisciplinary and Vocational Studies

Home Assignment

PGCG

2023

BASICS OF REMOTE SENSING AND GLOBAL NAVIGATION SATELLITE SYSTEM

Course Code: GI-02

Last Date of Submission is 10.01.2024

Total Marks= 50

[Assignments are required to be written in your own language. Copying in toto from the learning materials will carry less score]

A. Answer the following Questions (Answer in about 300 words)

10x5=50

Q1. Define ‘EMR’. Explain the different regions of EMR in detail. Explore the concept of 'Spectral Signature' in remote sensing.

Q2. Highlight the elements of image interpretation with detail.

Q3. Define GPS technology. What are the three segments of GPS? Elaborate about the factors that affect the accuracy of GPS data.

Q4. Write a detailed note on India’s Remote Sensing Programme with examples.

Q5. Discuss the various applications of hyperspectral remote sensing with a special reference to climate applications.

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2023
SPATIAL ANALYSIS AND APPLICATION IN GEOINFORMATICS

Course Code: GI-03

Last Date of Submission is 10.01.2024

Total Marks= 50

[Assignments are required to be written in your own language. Copying in toto from the learning materials will carry less score]

A. Answer the following Questions (Answer in about 300 words)

10x5=50

Q1. Discuss in detail various database models.

Q2. Discuss the various types of overlays in Raster Data structure.

Q3. Write a short note on spatial auto correlation and vector overlay.

Q4. Explain about the spatial resolution and radiometric resolution of satellite image.

Q5. How can geoinformatics be applied to address environmental challenges and enhance sustainability?

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