1104N93   Candidate's Seat No :_____

Integ. MSc. App Geo Semester-6 Examination
AGL 309
Remote Sensing and GIS

Time : 2-30 Hours]   April-2023   [Max. Marks : 70

| Q-I | A what are aerial photographs and state the 7 elements of photo interpretation techniques (fig compulsory wherever necessary) | 7 |
| | B write short note on 1) monocular and binocular visions 2) explain in detail the concept of stereoscopy | 7 |

Or

| Q-1 | A write notes on the applications of remote sensing in aeolian and glacial geomorphology | 7 |
| | B write a detailed note on types of aerial photography providing all the related parameters (fig compulsory wherever necessary) | 7 |

| Q-2 | A explain in detail the concept of EMR in remote sensing (fig compulsory) | 7 |
| | B write a detailed note on types of satellite orbits (fig compulsory) | 7 |

Or

| Q-2 | A explain in detail the entire range of EMS (fig compulsory) | 7 |
| | B write a detailed note on the factors influencing/affecting a remote sensor | 7 |

| Q-3 | A explain the concept: organizational context of GIS | 7 |
| | B write a note on the advantages of RS over conventional surveys and define the raster and vector data formats | 7 |

| Q-3 | A write a note on advantages and disadvantages of remote sensing (minimum 10 points on each) | 7 |
| | B explain in detail the concept of datum and coordinate system | 7 |

Or

| ,Q-4 | A write a detailed note on GPS and its working (fig compulsory) | 7 |
| | B detailed note on the significance of DEM | 7 |

Or

| Q-4 | A explain in detail the three segments of a GPS system | 7 |
| | B explaining what is DEM write note on the two types of DEM | 7 |

P.T.O

| Q -5 | Attempt any seven out of twelve | 14 |

1. Define DTM

2. Define DSM

3. provide the range of EMR

4. frequency is measured in _____

5. The electromagnetic spectrum is the term used to describe the entire range of _____ that exists

6. Define lock of a fix in GPS

7. The magnitude of the electric current produced i.e the number of photoelectrons per unit time, is directly proportional to the _____

8. State the full form of IFOV

9. state the full forms of SONAR, SLAR, LIDAR and SAR

10. define semiminor and semimajor axis

11. CO_2 tends to absorb (which) _____ infrared portion of the spectrum

12. define atmospheric windows

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