

**S-795**

**Total Pages : 3**

**Roll No. -----**

**GIS-505/DGIS-505**

**Advance Remote Sensing**

**(MAGIS/MSCGIS/DGIS/CGIS)**

**2<sup>nd</sup> Semester, Examination 2022(Dec.)**

**Time: 2 Hours**

**Max. Marks: 70**

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

**Section – A**

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. What is SARAL? Describe in detail?
- Q.2. What do you understand by multispectral and hyper spectral remote sensing?
- Q.3. What is the main difference between RADAR and optical remote sensing systems?
- Q.4. What is Synthetic Aperture Radar? How the image of a SAR system is formed?
- Q.5. Define Digital Image classification? What is the importance of digital image classification?

## **Section – B**

### **(Short-answer-type questions)**

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

- Q.1. Briefly explain supervised and unsupervised classification?
- Q.2. Define filter, filtering, spatial and linear filtering?
- Q.3. Define Image enhancement techniques?
- Q.4. What do you understand by Image registration?
- Q.5. What is radar speckle and how to correct them?
- Q.6. Define radar parallax?
- Q.7. Explain the radar wavelength bands?
- Q.8. Define Real Aperture Radar (RAR)?

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