C1048

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MGIS-03/PGDGIS-03/CGIS-03

Remote Sensing and GPS

Master / P.G. Diploma/Certificate in Geographical Information System (MGIS/MAGIS/MSCGIS/PGDGIS/CGIS-16/17)

1st Year/1st Semester Examination, 2022 (June)

Time : 2 Hours] **Max. Marks : 80**

Note : This paper is of Eighty (80) 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 Twenty (20) marks each. Learners are required to answer any Two (02) questions only. (2×20=40)

1. What is Electromagnetic Radiation? Explain with suitable diagram the Electromagnetic Spectrum with reference to Remote Sensing.

2. Explain the processes in atmospheric interaction and target interaction of Electromagnetic Radiation.

3. What is passive and active remote sensing? Give examples of sensors of passive and active remote sensing.

4. What is the difference between satellite, sensor and platforms? Discuss some of the important remote sensing satellites.

5. What are the types of GPS? Describe in detail the applications of GPS.

SECTION–B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. What is atmospheric widow? How it is useful in Remote Sensing?

2. Explain three types of interaction of incidence (EMR) on the earth surface.

3. What is spectral response? Explain with diagram the spectral response curve.

4. What do you understand by the spatial resolution in Remote Sensing?

5. Define LISS? How it is different from Panchromatic Camera?

6. What are the important tasks of control segments in GPS?

7. Which are the different components of GPS instrument?

8. Describe multipath effects and atmospheric effect in GPS.