PG Even Semester Exam, 2024

Geography

4th Semester

COURSE NO. GEOCC- 401

[Advanced Remote Sensing]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

UNIT-I

1. a. What are the visual interpretation keys of aerial photographs? Explain. 8
   b. What is photogrammetry? Classify and explain. 6
2. a. Enlist and explain the different type of aerial photographs and their importance. 7
   b. Define relief displacement and mirror stereoscope. 7

UNIT-II

3. a. What are the characteristics of active and passive remote sensing? 8
   b. Explain the spectral signature. 6
4. a. Elaborate the different remote sensing resolutions. 8
   b. How will you delineate and map the physiographic units from satellite images? 6

UNIT-III

5. a. Write the concept of the black body. 4
   b. Define across track scanner and radar interferometry. 10
6. a. What are the advantages of thermal imagery? 8
   b. Enlist the application of DEM. 6

UNIT-IV

7. a. What are the components of Image processing system? Explain. 8
   b. What is a Digital image? Give a suitable example. 6
8. Explain the supervised and unsupervised image classification system. 7+7=14

UNIT-V

9. a. Define NAVSTAR, GLONASS, GLLILEO and COMPASS. 7
   b. Explain the different components of GPS. 7
10. a. What are the applications of GPS? 8
    b. What is a kinematic survey? 6

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