

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE / EE / ECE) (Sem.-6)

REMOTE SENSING AND GIS

Subject Code : OECE-609-18

M.Code : 79414

Date of Examination : 15-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Define remote sensing.
- b) What is radiant energy?
- c) What is resolution of a sensor?
- d) What are the major causes of low contrast of image?
- e) What is histogram equalization?
- f) List any four supervised classifiers.
- g) Define GIS.
- h) How can GIS use information in a map?
- i) List three segments of a GPS system.
- j) List various components of a satellite signal.

SECTION-B

2. What is orbit of a satellite? Explain geosynchronous and sun-synchronous orbits.
3. Describe the classification scheme at different levels for Land use/Land cover for use with aerial photos.
4. Write short note on linear contrast sketch and logarithmic contrast enhancement.
5. What do you understand by spatial data attribute data? How are they integrated to make a GIS?
6. Differentiate between static, kinematic and differential GPS.

SECTION-C

7. Draw and explain spectral reflectance curves for vegetation, soil and water.
8. Enumerate various elements which aid visual interpretation process of satellite imagery.
9. Explain the functions of GIS. Discuss applications of GIS.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.