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 : 02-01-2023

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 Radiance.

b) What is orbit of a satellite?

c) List various elements of image interpretation.

d) What do you mean by digital image enhancement?

e) What is Contrast enhancement?

f) How are unsupervised classification algorithms differ from supervised classification?

g) What is data modelling?

h) List **any two** reasons why GPS signal is so complicated?

i) Differentiate between Static and Differential GPS?

j) What do you mean by GLONASS?

SECTION-B

2. What are advantages and limitations of remote sensing?

3. What is a spectral reflectance curve and what are its utilities in remote sensing?

4. List various applications of remote sensing.

5. What is GIS? Describe its key components.

6. Briefly discuss various applications of GPS.

SECTION-C

7. What is resolution of a sensor? Describe all sensor resolutions.

8. What are the steps involved in supervised classification procedure? Draw a flow chart showing image classification.

9. Describe various segments of a GPS system.

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.