## 42121

# M. Sc. (Geography) 4th Semester Examination – May, 2019

# FUNDAMENTALS OF REMOTE SENSING AND GIS

Paper: 16GEOGA01CC/A061

Time: Three hours]

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.

- 1. Describe the followings in brief:
  - (i) Texture Coarse
- (ii) Sun- synchronous orbit
- (iii) Ground based platforms
- (iv) Mie scattering
- (v) IRS, P6

P. T. O.

(vi) Attribute data

(vii)Passive remote sensing

(viii)Spatial data capture

 $2 \times 8 = 16$ 

#### UNIT -I

- 2. What do you understand by aerial photography? Give an account of types of photographs and their characteristics.
- What do you understand by visual image interpretation?Discuss its elements in detail with illustrations.

#### UNIT - II

- **4.** Describe the characteristics of visible and invisible range of EMR spectrum and their utility in remote sensing.
- **5.** Write short note on following:
- $8 \times 2 = 16$
- (ii) Atmospheric window and remote sensing.

(i) Interaction of EMR with earth surface.

#### UNIT - III

**6.** Give an account of IRS satellites with their characteristics.

- 7. Describe the followings in detail:
- (i) Type of sensors and their characteristics
- (ii) Remote sensing applications in gcount studies.

### UNIT - IV

- 8. Define GIS. Discuss its functions in deatil.
- 9. What do you understand by spatial and nondata? Discuss their characteristics in environment.