

Roll No.

42121

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

FUNDAMENTALS OF REMOTE SENSING AND GIS

Paper : 16GEOGA01CC/A061

Time : Three hours] [Maximum Marks : 60

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

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- (vi) Attribute data
- (vii) Passive remote sensing
- (viii) Spatial data capture 2×8=16

UNIT – I

- 2. What do you understand by aerial photography ? Give an account of types of photographs and their characteristics. 16
- 3. What do you understand by visual image interpretation ? Discuss its elements in detail with illustrations. 16

UNIT – II

- 4. Describe the characteristics of visible and invisible range of EMR spectrum and their utility in remote sensing. 16
- 5. Write short note on following : 8 × 2 = 16
 - (i) Interaction of EMR with earth surface.
 - (ii) Atmospheric window and remote sensing.

UNIT – III

- 6. Give an account of IRS satellites with their characteristics. 16

(2)

7. Describe the followings in detail :

- (i) Type of sensors and their characteristics
- (ii) Remote sensing applications in geomorphology studies.

UNIT – IV

8. Define GIS. Discuss its functions in detail.

9. What do you understand by spatial and non-spatial data ? Discuss their characteristics in environment.
