M.Sc. 3rd Semester Examination, 2018 REMOTE SENSING AND GIS

PAPER -RSG-304(A+B)

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

GROUP - A

(Advanced Remote Sensing Techniques)

Answer any two questions:

 10×2

digital data. What are the different methods of supervised and unsupervised classification? How can you assess the accuracy of a classification?

3 + 5 + 2

- 2. Briefly explain the process of end member collection from hyperspectral image using suitable illustration. Why hyperspectral images are preferred for rocks and minerals identification?

 6+4
- 3. Describe how the geometrical and electrical properties of the target influence the RADAR return. What do you mean by speckle supression? How a narrow beam width can be achieved by synthesizing a virtual antena length? 3+3+4
- 4. Write short notes on:

 2×5

- (i) BIL, BSQ and BIP
- (ii) Types of image classification processes
- (iii) Different types of image resolutions
- (iv) Advantages of hyperspectral images over multispectral images
- (v) Wisk-broom and push broom scanners.

GROUP - B

(Application of Geo-Informatics)

Answer any two questions:

 10×2

(Turn Over)

1.	(a) Which is the most important single agent of denudation?			
	(b)	What are the process and stages of action?	fluvial 2 + 8	
2.	(i)	What is erosion of rocks and how different from weathering?	w it is	
	(ii)	between hazard, and vulnerability.		
	(iii	Write a note on seismic body wav surface waves.	es and 2+4+4	
3.	(i)	(i) What are main causes and major triggers of landslides.		
is 63	(ii)	Describe role of remote sensing in la hazard zonation studies.	ndslide 5 + 5	
4.	Wr	ite short notes on:	2×5	
	<i>(i)</i>	Ore, Minerals and rocks	8,	

PG/IIIS/RSG-304/18(CECS)

- (ii) Joint and Fault
- (iii) Formation of Tsunami
- (iv) Pyroclastic Flow
 - (v) Goal of disaster management.