Total No. of Pages: 1

Register Number:

Name of the Candidate:

M.Sc. DEGREE EXAMINATION, 2010

(GEO INFORMATICS)

(SECOND YEAR)

(PAPER-IX)

630. DIGITAL IMAGE PROCESSING

May)

(Time: 3 Hours

Maximum: 100 Marks

Answer ALL questions (5×20=100) Each answer should be in about 1500 words All questions carry equal marks

1. a) Explain various digital image format and its characteristics.

(OR)

- b) Give a detailed account of software and hardware components in image processing system.
- 2. a) Mention various radiometric errors in satellite data and explain the procedures to rectify such errors.
 - (OR)
 - b) Explain in detail the various geometric errors in satellite image.
- 3. a) Explain high and low pass filtering techniques in image processing. (OR)
 - b) Explain the principles and procedures involved in change detection.
- a) Describe the following spatial transformation techniques.
 i) Vegetation indices ii) Principle component analysis (OR)
 - b) Explain the following enhancement technique in multiband data.IO Band Radioing ii) Generation of color composite images
- 5. a) What is meant by supervised classification? Explain the procedure in detail.

(OR)

b) Describe soft and contentural classification in detail?

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