

Printed Pages: 3

CE402

(Following Paper ID and Roll No. to be filled in your Answer Book)
PAPER_ID: 100402
Roll No.

B. Tech.

(SEM. IV) THEORY EXAMINATION, 2014-15 GEOINFORMATICS

Time: 3 Hours]

[Total Marks: 100

Note: (i) Attempt All Questions.

(ii) All Questions carry equal marks.

1 Attempt any four parts :

5×4=20

- (a) List the characteristics of Photographic Images.
- (b) Describe Kinematics GPS and Photogrammetry
- (c) How the data are obtained from a Remote Sensing Satellite & What do you mean by Spectrum Signature?
- (d) Write the various characteristics of any one satellite. Explain Nadir Point.
- (e) Describe Parallax Bar with a neat sketch.
- (f) What is Image Enhancement? Define Image Histogram.

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<u></u> 3 Attempt any TWO parts Differentiate between active & passive remote sensing systems. Under what condition which is preferred Describe wave model of electromagnetic radiation.

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10×2=20

static, kinematic & differential GPS. Explain the terms data modelling & data output. Explain

Define the concept of flight planning with neat sketch. State advantages & disadvantages of each type of aerial photograph in respect to others.

Attempt any TWO parts :

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10×2=20

Enumerate the use of remote sensing in civil engineering images, list any three image enhancing operations & between restoration & enhancement of remote sensing especially in forestry & oceanography. Differentiate explain any one of them

topology with respect to GIS What are the important functions in a GIS? Also explain

Explain how the height of a flagpole (falling on level its shadow in an aerial photo. terrain) can be calculated by measuring the length of

Attempt any TWO Parts

4

10×2=20

What do you mean by image classification? Explain digital image processing different types of image classification methods during

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3 end lap? Assume that the spacing between adjacent length & a 9 inch (23cm) format. What is the percent 8000 ft. The camera has 6 inch (152.4 mm) focal 4000 ft. & flying height above average ground is The air base of a stereopair of vertical photos is flight strips is 8200 ft. What is the percentage side lap?

Identify 3 segment of GPS & explain the purpose of each. What are the major differences between EMR & other energy transfer procedures (Conduction &

Attempt any TWO parts :

10×2=20

Differentiate between

(ii) Active & passive Sensors

Spatial & Spectral resolution Raster & Vector Data

Geostationary Satellite & Sun-Synchronous satellite

Describe different regions of a electromagnetic spectrum along with their range of wavelengths, with the help of

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Explain about, GPS satellite signals & receivers What do you mean by photo interpretation?

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