

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 100410

Roll No.

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B.TECH.**Theory Examination (Semester-IV) 2015-16****GEOINFORMATICS****Time : 3 Hours****Max. Marks : 100****Section-A**

Q.1 Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)

- (a) Give any three advantages that an aerial photograph offers over ground based observations.
- (b) How is an aerial photograph taken?
- (c) What do you understand by remote sensing?
- (d) Define spectral reflectance curve and what are its utilities in remote sensing?
- (e) Write short notes on orbital calendar and spatial resolution.

(1)

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Section-B

Attempt any 5 questions from this section.
(10×5=50)

- (a) Elaborate the two major uses of an aerial photograph.
- (b) Illustrate the fundamentals of aerial photo-interpretation.
- (c) Explain the methodologies of remote sensing data analysis.
- (d) Elaborate the relative advantages of using aerial photos and satellite images over products of conventional survey.

(2)

(ii) Explain the functions of GIS.

Section-C

Note: Attempt any 2 questions from this section. (15×2=30)

- Q3. a) Explain in detail about the characteristics of photographic images.
- b) Discuss on the spectral reflectance characteristics of water and vegetation in spectral bands.
- Q4. a) Explain image referencing system.
- b) Explain the concept of object-oriented data model applied in GIS.

(3)

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b) Discuss in detail about the following terms:

- (i) GNSS
- (ii) GPS
- (iii) GLONASS
- (iv) GALILEO

(4)

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