

ROLL No:

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Total number of pages: 24

B.Tech. || CE || 4th Sem
Geomatics Engineering
Subject Code: BTCE-411A
Paper ID:

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory
- Assume any missing data

PART A (10x 2marks)

Q. 1. Short-Answer Questions:

- (a) What is the difference between the maps and mosaic?
- (b) What is the need of image enhancement?
- (c) How would you define crab and drift?
- (d) What is the basic principle of Remote sensing?
- (e) What is black body radiation?
- (f) What are the types of scanning?
- (g) What are the advantages of EDM?
- (h) What is the basic principle of photogrammetry?
- (i) State the types of EDM instruments based on range of measurement?
- (j) What do you mean by photomaps?

PART B (5x8marks)

Q.2. How would you explain the various parts of an aerial camera with a neat sketch. CO1

OR

How would you explain in detail Photomaps and Mosaics.

CO1

Q.3. What do you mean by stereoscopy and explain its various types

CO1

OR

How would you explain the following terms:-

- (a) Vertical photographs.
- (b) Tilted photographs.
- (c) Stereoscopic fusion.
- (d) Angle of parallax.

CO1

Q.4. Explain the GIS data models in detail

CO2

OR

What are the various components of GIS, explain in detail.

CO2

Q.5. What is GPS, explain its working system also state its advantages and disadvantages. CO3

OR

What do you mean by DGPS and explain its method of corrections.

CO3

Q.6. How would you explain Remote sensing platforms in detail.

CO4

OR

How would explain the term remote sensing. Also state its applications, merits and demerits. CO4