

TCE-605

368

Even Semester Examination - 2017

B.TECH. (VI SEMESTER)

THEORY AND APPLICATION OF GPS & GIS

Time: 03:00 Hours

Max Marks : 100

Note: Attempt **all** questions, each question carry **equal** marks.

Q1. Attempt any **FOUR** questions [4 x 5]

- (i) What are the segments of GPS?
- (ii) Differentiate: Dot and Animated Maps.
- (iii) Explain triangulation method in GPS.
- (iv) What do you mean by GPS Navigation?
- (v) Define the importance of GPS in civil engineering.

Q2. Attempt any **FOUR** questions [4 x 5]

- (i) What do you understand by Geoid?
- (ii) Define the term: Data Acquisition

- (iii) Why Is GIS Important in Urban Planning?
- (iv) What are the geographical concepts of GIS?
- (v) What are the silent features of various GIS packages?

Q3. Attempt any TWO questions [2x 10]

- (i) What is difference between image processing and GIS?
- (ii) Define the following term:
 - a) Raster Data Structure
 - b) Vector Data Structure
- (iii) What are the sources of data digitization?

Q4. Attempt any TWO questions [2x 10]

- (i) What is GIS? Also explain the component of GIS.
- (ii) Write short notes on:
 - a) Datum
 - b) Ellipsoid

c) WGS 84

(iii) Explain Hierarchical data base structure.

Q5. Attempt any TWO questions [2x 10]

(i) What are the data errors in Digitization?

(ii) Write short notes on:

a) Static positioning

b) Kinematic

c) Stop & Go

(iii) What do you mean query based analysis?
Describe briefly.
