

Total No. of Questions : 8]

SEAT No. :

P-7516

[Total No. Of Pages : 2

[6180]-23

T.E. (Civil)

**REMOTE SENSING & GEOGRAPHIC INFORMATION
SYSTEM**

(2019 Pattern) (Semester - II) (301014)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Figures to the right indicate full marks.*
- 3) *Assume Suitable data, if necessary.*
- 4) *Use of electronic pocket calculator is allowed in the examination.*
- 5) *Neat diagrams must be drawn wherever necessary.*

Q1) a) What are the three segments of GPS? Describe them briefly. [6]

b) Write a short note on following: i) GLONASS system ii) Galileo system. [6]

c) Write a note on types of GPS tracking. [5]

OR

Q2) a) Describe sources of error in SBPS. [6]

b) Define IRNSS and illustrate its structure. [6]

c) What is augmentation and explain about satellite-based augmentation. [5]

Q3) a) What are elements of visual elements of image interpretation? [6]

b) Differentiate between supervised and unsupervised image classification. [6]

c) Explain in detail the concept of post processing and pre processing. [6]

OR

Q4) a) Write a note on digital image and analog image. [6]

b) Explain in detail spectral signature curve with neat sketch. [6]

c) Differentiate between Visual and Digital image interpretation. [6]

P.T.O.

- Q5)** a) What are the functionalities of GIS? [6]
b) Discuss the difference between drafting software's and GIS. [6]
c) Write a note on data retrieval and data storage. [5]

OR

- Q6)** a) Write in detail about various components of GIS. [6]
b) Explain the role of layer combination in map making. [6]
c) Illustrate Cloud computing with types and applications. [5]

- Q7)** a) Discuss differences between raster and vector data formats. What type of data is raster format best suited for? [6]
b) Explain the application of GIS in Demarcation of Dam Catchment. [6]
c) Illustrate the different projection systems and explain any one in detail. [6]

OR

- Q8)** a) Enumerate different Attribute Data models and explain any one of them. [6]
b) Explain in detail how to use remote sensing data in GIS. [6]
c) What is Georeferencing of GIS data? And explain its importance in the field of GIS? [6]

