[6003]-339

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 pcoket calculator is allowed in the examination.*
5) *Neat diagrams must be drawn wherever necessary.*

Q1) a) Give a brief account of Origin of Global positioning system. **[6]**

b) Write a note on applications of GNSS in surveying. **[6]**

c) Describe Global Navigation satellite system in detail. **[6]**

OR

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

b) Define DGPS. Write sources of errors of DGPS. **[6]**

c) Write a note on types of GPS tracking. **[6]**

Q3) a) What is image acquisition in Digital image processing? **[6]**

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

c) Define Triangular Irregular Network Model (TIN) and its applications.**[5]**

OR

Q4) a) What is Digital Image Processing? What are the most common image processing functions. **[6]**

b) What is image registration? **[6]**

c) State the application of DEM. **[5]**

P.T.O.

Q5) a) Write in detail about various components of GIS. **[6]**

b) Illustrate Cloud computing with types and applications. **[6]**

c) Write a note on essential elements of GIS hardware. **[6]**

OR

Q6) a) Write a note on fundamentals of Cartography and map creation in GIS.**[6]**

b) Discuss the difference between drafting software's and GIS. **[6]**

c) Illustrate the advantages of data storage in GIS. **[6]**

Q7) a) Define Raster and Vector Data types. Explain with neat diagram. **[6]**

b) Discuss applications of GIS in civil engineering. **[6]**

c) Write a note on application in land measurement work. **[5]**

OR

Q8) a) Enumerate different Attribute Data models and explain any one of them.**[6]**

b) Write a note on essential elements of GIS hardware. **[6]**

c) Discuss the applications in irrigation planning. **[5]**

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