Total No. of Questions : 8]

SEAT No. :

PC-1697

[Total No. of Pages :2

[6353]-13
T.E. (CIVIL) (301014)
Remote Sensing & Geographic Information System
(2019 PATTERN) (SEMESTER — II)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q5 or Q6,Q7or Q8*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right side indicate full marks.*
4) *Assume Suitable data jf necessary.*
5) *Use of electronic pocket calculator is allowed in the examination.*

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

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

c) Illustrate the advantages and disadvantages of GNSS. **[5]**

OR

Q2) a) Explain the concept of GNSS. **[6]**

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

c) Describe the different sources of error in GPS. **[5]**

Q3) a) Differentiate between supervised and unsupervised image classification. **[6]**

b) State the application of DEM. **[6]**

c) Define Triangular Irregular Network Model (TIN) and its applications. **[6]**

OR

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

b) Explain in detail the concept of post processing and pre possessing. **[6]**

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

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Q5) a) Explain the functionalities of GIS? **[6]**

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

c) List down the differences between drafting software's and GIS. **[5]**

OR

Q6) a) Illustrate the Geographical Information System and state Spatial Data types. **[6]**

b) Demonstrate the link between remote sensing & GIS. **[6]**

c) Compare the various definitions of GIS used globally. **[5]**

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

b) Differentiate various Attribute Data models and explain any one of them. **[6]**

c) Explain the application of GIS in Urban Planning. **[6]**

OR

Q8) a) Outline the Geo-referencing of GIS data? And explain its importance in the field of GIS? **[6]**

b) Enlist the applications of GIS in Civil Engineering & Explain any one in detail. **[6]**

c) Categorize the different Database? Name the types of database. **[6]**

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