Total No. of Questions : 8]

SEAT No. :

PE-2479

[Total No. of Pages : 2

[6583]-3

T.E. (Civil)

REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM

(2019 Pattern) (Semester - VI) (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 and 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) Express the concept of augmentation and explain about satellite-based augmentation. **[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) Describe briefly the concept of three-dimensional position location via intersection of multiple spheres. **[6]**

b) Summarize the necessity of GNSS in various fields. **[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]**

P.T.O.

spuquestionpapers.com
CEGP013091
49.248.216.237 27/1/2025 09:47:22 static-237

Q5) a) Illustrate Cloud computing with types and applications. **[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) Interpret the fundamentals of Cartography and map creation in GIS. **[6]**

b) Discuss the spatial and non-spatial data with example. **[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) Enlist the applications of GIS in Civil Engineering & Explain any one in detail. **[6]**

b) Outline the Georeferencing of GIS data? And explain its importance in the field of GIS? **[6]**

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

♣ ♣ ♣

sppuquestionpapers.com
CEGP013091 49.248.216.237 27/11/2025 09:47:22 static-237