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B.E / B.Tech (FT) END SEMESTER EXAMINATIONS – MAY 2019

CIVIL ENGINEERING BRANCH
Semester Eight
GI8551 & Geographic Information System
(Regulation 2012)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Define GIS.
2. List any two open sources software for GIS.
3. What is ER diagram?
4. List the any four data compression techniques.
5. What is the need of georeferencing?
6. What is GPS?
7. List the possible sources of operational errors in GIS.
8. List the uses of meta data.
9. What is distributed system in GIS?
10. List the types of scales used in maps.



Part – B (5 x 13 = 65 marks)

11. (a) (i) Discuss the components of GIS with sketch. (10)
(ii) Describe the levels of measurements. (6)

12. (a) (i) Discuss the Vector data structure in GIS and its merits and demerits. (16)
OR
(b) (ii) Discuss the Raster data structure in GIS and its merits and demerits. (16)

13. (a) (i) Explain the basic components of topology. (10)
(ii) Describe the characteristics of DBMS. (6)
OR
(b) (i) Discuss the various data input methods in GIS. (10)
(ii) Describe the projection system in GIS. (6)

14. (a) (i) Explain Spatial Data Infrastructure concept in GIS . (16)
OR
(b) (i) Discuss the basic aspects of data quality. (10)
(ii) Describe about the Open geospatial consortium. (6)

15. (a) (i) Explain the capabilities of multimedia GIS. (8)
(ii) Describe the steps involved in map layout process. (8)

OR

- (b) (i) Compare the enterprise GIS and Desktop GIS. (8)
(ii) Describe the selection by attributes and selection by location operations in GIS. (8)

