ME Sem II / Civil / Choice / First Half 2018

23/05/18

Sub: RSGIS C

Q.P. Code: 25847

(3 Hours) **Total Marks: 80**

N.B. 1) Answer any **FOUR** questions

2) Each main question carries equal marks.

Q1.

a) Explain the concepts of physics of remote sensing. What do you mean by Ideal remote sensing system. **(10)**

b) Differentiate between Raster Data and Vector Data **(10)**

Q2.

a) State the advantages of GIS. (Explain in brief the various commercially available GIS hardware and software.) **(10)**

b) Write note on Interpolation techniques. State the various techniques used **(10)**

Q3.

a) Differentiate between Absolute Positioning and Relative positioning **(10)**

b) Write Short note on Digital image processing (DIP) **(10)**

Q4.

a) Write application of GIS in Traffic congestion analysis and accidents analysis **(10)**

b) Write in brief on various G.P.S.Receivers **(10)**

i. Navigational Receivers,
ii. Surveying Receivers
iii. Geodetic Receivers

Q5.

a) Differentiate between Spatial and Non Spatial Information systems **(10)**

b) Write application of GIS in Urban Transport system **(10)**

Q6.

a) Write short note on **(10)**

i. Image histogram,
ii. Image rectification
iii. Image enhancement

b) Write in brief about the various GIS data mentioned below **(10)**

i. Field data
ii. Statistical data
iii. Maps and aerial photographs
iv. Satellite data
