

Code No: **RT41015**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 REMOTE SENSING AND GIS APPLICATIONS

(Civil Engineering)

Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B **** PART-A (22 Marks) 1. a) What do you understand by remote sensing? [3] What are image processing techniques? [4] c) Comparison between spatial and non spatial data. [4] d) What is data compression? [3] e) Write short notes on applications of RS & GIS drainage morphometry. [4] Write short notes on applications of RS & GIS in flood inundation f) [4] PART-B (3x16 = 48 Marks)a) Explain briefly about the process of Remote Sensing with a neat supporting diagram. [8] b) Discuss the following Band interleaved by pixel (i) Band interleaved by line (ii) [8] a) Explain the term 'visual image interpretation'. Discuss the various image interpretation elements. [8] Explain the following Image Enhancement Techniques (i) Image reduction & magnification Contrast enhancement [8] 4. Explain in detail about the map projections in GIS. [16] 5. a) Describe vector overlay and raster overlay with examples. [8] b) What is raster overlay? Explain with suitable examples. [8] a) Explain the use of RS GIS techniques in Forestry applications. 6. [8] b) Discuss the geomorphological applications of GIS. [8] 7. Discuss the methodology with flowchart RS and GIS application to ground water prospects studies. [16]

1 of 1