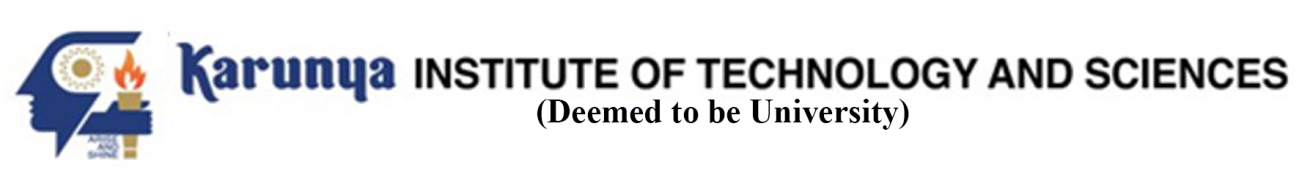
Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec – 2018**

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| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14CE3044** | **Duration :** | **3hrs** |
| **Sub. Name :** | **REMOTE SENSING AND GIS** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Differentiate the following terms relating to electromagnetic radiation:   1. Back scattering 2. Radiation 3. Specular reflection 4. Dispersion | CO1 | 8 |
| b. | Recall the components of ideal remote sensing with a neat sketch. | CO1 | 12 |
| (OR) | | | | |
| 2. | a. | Enumerate the elements of visual interpretation with reference to satellite imageries. | CO1 | 10 |
| b. | Elaborate about the various remote sensing platforms and its significance. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Interpret the data types used for representing the satellite imageries. | CO1 | 6 |
| b. | Compare in detail about the image classification techniques. | CO1 | 14 |
| (OR) | | | | |
| 4. | a. | Appraise about the cylindrical and azimuthal projections. | CO1 | 10 |
| b. | Demonstrate the map components and map characteristics. | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | Distinguish between buffering and neighbourhood analysis. | CO1 | 8 |
| b. | Infer about point-in-polygon and line-in-polygon with some applications. | CO1 | 12 |
| (OR) | | | | |
| 6. | a. | Contrast Raster and vector overlay method. | CO1 | 8 |
| b. | Summarize the different types of errors and its sources. | CO1 | 12 |
|  |  |  |  |  |
| 7. | a. | Compare queries with appropriate examples. | CO1 | 8 |
| b. | Relate the various thematic maps to be developed for groundwater potential zoning. | CO1 | 12 |
| (OR) | | | | |
| 8. | a. | Develop the procedure for method of application of GIS in groundwater modelling. | CO1 | 8 |
| b. | Discuss about the following   1. Land use change detection. 2. Vegetation monitoring. | CO1 | 12 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Compose the various methods available for spatial interpolation with examples. | CO1 | 10 |
| b. | Analyse the methodology of digital elevation modeling. | CO1 | 10 |