**18CE502**

**Hall Ticket Number:**

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| **III/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **February, 2021** | **Civil Engineering** | | |
| **Fifth Semester** | **Remote Sensing & GIS Applications** | | |
| **Time:** Three Hours | | **Maximum: 5**0 Marks | |
| *Answer ALL Questions from PART-A.* | | | (1X10 = 10 Marks) |
| *Answer* ***ANY FOUR*** *questions from PART-B.* | | | (4X10=40 Marks) |
| **Part - A** | | | |

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| 1. | a) | Define photogrammetry? | CO1 |  |
|  | b) | What is photogrammetry overlap? | CO1 |  |
|  | c) | What are remote sensing sensors? | CO2 |  |
|  | d) | What are the different characteristics of satellite orbit? | CO2 |  |
|  | e) | What are the different platforms used for remote sensing? | CO2 |  |
|  | f) | WHAT IS OVERLAY? | CO3 |  |
|  | g) | What is buffering? | CO3 |  |
|  | h) | Define GIS? | CO3 |  |
|  | i) | What are components of GPS? | CO4 |  |
|  | j) | Definition of GPS? | CO4 |  |
| **Part - B** | | | | |
| 2. |  | With neat sketches explain the fundamentals of photogrammetry and also write its types. | CO1 | 10M |
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| 3. |  | Explain in detail about stereoscopy? | CO1 | 10M |
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| 4. |  | Briefly explain about the overview of Indian remote sensing satellites. | CO2 | 10M |
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| 5. | a) | Explain the energy interactions with target. | CO2 | 5M |
|  | b) | Explain the techniques of visual interpretation techniques. | CO2 | 5M |
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| 6. |  | With neat sketches explain the RASTER & VECTOR GIS? Compare its relative merits and demerits. | CO3 | 10M |
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| 7. |  | Explain about network analysis and write its application? | CO3 | 10M |
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| 8. |  | Explain the use of GIS in physical transformation of urban land. | CO4 | 10M |
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| 9. | a) | Explain in detail about the land use/land cover in water resources? | CO4 | 5M |
|  | b) | Explain the applications of GPS. | CO4 | 5M |

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