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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

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| **Code :** | **15EE2001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **TRANSMISSION AND DISTRIBUTION MANAGEMENT SYSTEMS.** | **Max. marks :** | **100** |

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

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Reproduce the functions and attributes of Energy Management system elaborately. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Give the procedural study of observability analysis. | CO3 | 10 |
| b. | Study the monitoring and event processing of a simple state estimator. | CO2 | 10 |
| 3. |  | Model the following parameters in distributed generation.  i)time varying load.  ii)generator.  iii)solar irradiance.  iv)wind speed. | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Give the requirments of good contingency analysis. | CO1 | 5 |
|  | b. | Give the data acquisition concept in SCADA system. | CO2 | 12 |
|  | c. | Write the merits of state estimation. | CO3 | 3 |
| 5. |  | Reproduce monitoring and event processing in SCADA system in detail. | CO1 | 20 |
| (OR) | | | | |
| 6. |  | Elaborate various factors and functions of load forcasting. | CO2 | 20 |
| 7. |  | Develop the model of weighted least square problem for the application of state estimation. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Make a detail study about PROMET 4300 IED. Also give the applications in the power system. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Explain in detail SCADA-PMU measurements for the improved state estimation. | CO3 | 20 |

ALL THE BEST