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

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

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| **Code :** | **14EE2018** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ENERGY 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. |  | Comment on the effect of distributed generation on power system operation. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | A generating station has the following daily load cycle:  Time (Hours) 0 —6 6 —10 10 —12 12 —16 16 —20 20 —24  Load (M W) 40 50 60 50 70 40  Draw the load curve and load duration curve. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Describe the importance of electrical energy conservation and their methods. | CO2 | 10 |
| b. | List out energy efficient equipment’s. | CO1 | 10 |
| (OR) | | | | |
| 4. |  | Calculate the energy consumed per month by the following electrical appliances. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | With help of neat sketch, explain any one type of bench photometers. | CO1 | 15 |
| b. | Discuss the applications of flood lighting. | CO2 | 5 |
| (OR) | | | | |
| 6. |  | Explain the lighting schemes and brief about the factory lighting with necessary diagrams. | CO1 | 20 |
|  |  |  |  |  |
| 7. |  | Explain Electric Braking with neat sketch. | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Explain the methods used for measurement of high DC voltage. | CO1 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Write a brief note on specific energy consumption and bridge traction. | CO1 | 20 |