

Department of Electrical Engineering

Assignment

Date: 14/04/2020

Course Details

Course Title: Smart Grid Technologies Module: 3
Instructor: _____ Total Marks: 30

Student Details

Name: _____ Student ID: _____

INSTRUCTIONS:

1. Answers to all the following questions must be submitted in form of one Research Paper.
 2. Each answer must be supported by related research articles (at least 3)
 3. The answers must be in your own words and references must be cited wherever it is necessary
 4. Plagiarized content will NOT be accepted (Max allowed similarity Index: 15%)
 5. The solution must be uploaded before the end of deadline mentioned on the Online Portal of subject.
-

Questions

- 1) Present in detail the problems and limitations of existing electric grid. How does unreliability of existing grid system results in loss of billions of dollars to the consumers?
- 2) Why should pursue a smart grid? If it should, what functions should the smart grid address?
- 3) Smart grid is customer oriented. What does this term mean and how does this relate to efficiency of grid?
- 4) Are customers interested in receiving advanced energy and other informational services through the electricity grid? How can this have monetary benefits for the customers and other stakeholders?
- 5) A smart grid network consists of a number of components. Discuss the its major components and operations in an integrated system.