

**SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR**  
**Electrical Engineering Department**  
**B. Tech, Semester-II**

**Subject: SMART GRID TECHNOLOGY**  
**(ELECTIVE-II) Course Code: EL423.4-21**

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Date 4/04/23

**Assignment 1**  
Chapter 1 and 2

Q.No.	Questions
1	Differentiate between conventional grid and smart grid.
2	Explain the overview of how Indian power market is organized.
3	Write a short note on “issues and challenges in smart grid implementation.”
4	Explain the different characteristics and features of the smart grid.
5	What are the different benefits of a smart grid?
6	Explain the function of smart grid components.
7	Explain smart meters. Give its function when deployed in the domestic sector.
8	How advanced metering infrastructure is going to help the system?
9	How does Automatic Meter Reading (AMR) work? Explain its block diagram and advantages of AMR
10	Explain Intelligent Electronic Devices (IED) & their application for monitoring & protection of smart grid.
11	Explain the technologies required for the smart grid.
12	Comparison between smart metering and Conventional metering
13	Explain the role of Phasor Measurement Unit in smart grid.