

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL
UNIVERSITY,
LONERE – RAIGAD – 402 103
Summer Semester Examination – May – 2018**

Branch: M.Tech. (EPS)

Semester: II

Subject with Subject Code:- Smart Grid Design and Analysis (MTEPS203-B)

Marks: 60

Date:- 18-05-2018

Time: 3 Hrs.

Instructions to the Students

1. Each question carries 12 marks.
2. Attempt any five questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

Q1. What do you mean by smart grid? What are its functions? Give comparison of smart grid and traditional grid? (12)

Q2. Explain in detail various communication technologies used in smart grid? (12)

Q3 Draw and explain the block diagram of phase measurement unit .Also show how it is used in wide area applications? (12)

Or

What do you mean by wide area measurement system explain with block diagram. (12)

Q.4 What is smart metering? With the help of functional block diagram explain the working of smart meter. (12)

Q5 Explain with diagram energy storage technologies in smart grid. (12)

Q.6 Explain grid integration issues of renewable energy sources. (12)

***** End *****