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Question Paper Code: 58367

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

One credit Course

Electrical and Electronics Engineering

15UEE867-ENERGY STORAGE SYSTEMS

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

PART – A (5 x 2= 20Marks)

1. Outline the significance of energy storage systems
2. List the types of energy storage systems
3. List some of the potential applications of energy storage options.
4. List the conditions for the safe operation of battery
5. Define energy efficiency.

PART – C (2x 15= 30Marks)

6. (a) Analyze the operation of compressed air storage during off peak hours and peak hours. (15)

Or

- (b) Explain in detail about the thermal energy storage system. (15)

7. (a) Explain the fundamental operation of electrochemical cell. (15)

Or

- (b) Analyze the charging and discharging of lead acid battery. (15)