

Reg. No. :

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**Question Paper Code: U8367**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

One credit

Electrical and Electronics Engineering

**21UEE867-ENERGY STORAGE SYSTEMS**

(Regulations 2021)

Duration: 1.30 Hours

Maximum: 50 Marks

Answer All Questions

PART A - (5 x 2 = 10 Marks)

1. Outline the significance of energy storage systems. CO1-U
2. What benefits do energy storage systems offer? CO1-U
3. List the features of nickel cadmium batteries. CO2-U
4. List the applications of lithium batteries. CO2-U
5. Define electrochemical cell. CO2-U

PART – B (2 x 20= 20 Marks)

6. (a) Analyze the operation of pumped storage plant for supplying the peak load. CO1-Ana (20)  
Or  
(b) Compare the energy storage technologies based on efficiency, cost, application, and technical characteristics. CO1-Ana (20)
7. (a) Explain the fundamental operation of electrochemical cell CO2-U (20)  
Or  
(b) Explain the operation of Lithium Battery. CO2-U (20)

