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**Question Paper Code: U8367**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024

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. List the essential criteria for comparing energy storage methods. CO1-U
2. Why does thermo chemical storage often involve little if any thermal losses? CO1-U
3. What are the potential uses of hydrogen and its connection to energy storage options? 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 compressed air storage during off peak hours and peak hours. CO1-Ana (20)  
Or  
(b) Explain in detail about the thermal energy storage system CO1-Ana (20)
7. (a) Explain the fundamental operation of electrochemical cell CO2-U (20)  
Or  
(b) Explain with neat diagram about the charging and discharging of lead acid battery CO2-U (20)

