Reg. No. : | | | | | | | | | | |

Question Paper Code: 98367

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

One credit

Electrical and Electronics Engineering

19UEE867-ENERGY STORAGE SYSTEMS

(Regulations 2019)

Duration: 1.30 Hours Maximum: 50Marks

Answer All Questions

PART A - (5 x 2 = 10 Marks)

1.	What benefits do energy storage systems offer?	CO1-U	
2.	What are the potential uses of hydrogen and its connection to energy storage options?	CO1-U	
3.	List the essential criteria for comparing energy storage methods.	CO2-U	
4.	Define discharge rate.	CO2-U	
5.	List the features of nickel cadmium batteries.	CO2-U	

PART – B (2 x 20= 40 Marks)

6.	(a)	Explain in detail about the magnetic energy storage system	CO1-U	(20)
		OR		
	(b)	Analyze the operation of pumped storage plant for supplying the peak load.	CO1-U	(20)
7.	(a)	Explain the operation of Lithium Battery	CO2-U	(20)
		Or		
	(b)	Analyze the charging and discharging of zinc-Air battery.	CO2-U	(20)

98367