Paper / Subject Code: 89308 / Energy Storage (DLOC)

1T00836 - T.E.(Electiral Engineering)(SEM-VI)(Choice Base Credit Grading System) (R- 20-21) (C Scheme) / 89308 - Energy Storage (DLOC) QP CODE: 10029633 DATE: 18/05/2023

		(3 Hours) [Total Marks: 80]	
	N.B. :	(1) Question No.1 is compulsory	
		(2) Attempt any three from the remaining	
		(3) Figures to the right indicate full marks	
		(4) Assume suitable data if necessary	
1.	(a)	Explain emerging trends in batteries.	20
	(b)	Explain the necessity of energy storage.	P
	(c)	Explain different types of fuel cell.	
	(d)	Write a short note on: Solar Pond.	
2	(a)	Write a short note on Flywheel.	10
	(b)	Explain in detail about latent heat storage.	10
	S. A.	Shi Day Ben Dig To Day Day	
3.	(a)	Explain working principle of Rechargeable battery.	10
	(b)	Explain in detail about design considerations for sizing of different types of energy storage systems for various applications	10
4.6	(a)	Write a short note on Superconducting magnetic energy storage (SMES).	10
X .	(b)	Explain in briefly about seasonal thermal energy storage.	10
	30		
5.5	(a)	Explain in detail about Pumped hydro storage system.	10
, T	(b)	Write a short note on: Supercapacitors	10
		A Short hote on Supercupacitors	10
	2		
6	(a) S	Explain in brief: Future technology in energy storage as Electric vehicle	10
7	(b)	Explain briefly about Compressed air energy storage (CAES)	10
	6,		- 3

Page 1 of 1