



KONERU LAKSHMAIAH EDUCATION FOUNDATION

(Deemed to be University, Estd. u/s. 3 of UGC Act 1956)

B.Tech - Even Sem : End Semester Exam
Academic Year:2021-2022

18EE4121 - Energy Storage Systems

Set No: 2

Time:		Max.Marks: 100					
S.NO	Answer All Questions	Choice	Options	Marks	CO	CO BTL	COI BTL
1.	Explain about more traditional generation technologies. How could energy storage change things	choice Q-2		10Marks	CO1	2	1
2.	Discuss about some of the technologies that exist for energy storage on a utility or multi megawatt scale			10Marks	CO1	2	2
3.	Explain the concepts of Response Time and Discharge Duration	choice Q-4		15Marks	CO1	2	1
4.	Discuss briefly about all mechanical Energy Storage			15Marks	CO1	2	2
5.	Explain briefly about the primary limitations of energy storage as a technology	choice Q-6		10Marks	CO2	2	1
6.	Describe in detail about the support of energy storage devices in transmission and distribution system			10Marks	CO2	2	2
7.	Discuss about Compressed Air Energy Storage System with neat diagram	choice Q-8		15Marks	CO2	2	1
8.	Explain the barriers need to be removed before the technology can be made even more beneficial to power utilities			15Marks	CO2	2	2
9.	Explain the biggest challenge facing the industry at this point in time?	choice Q-10		10Marks	CO3	2	1
10.	Describe the sensible heat energy storage systems in detail			10Marks	CO3	2	2
11.	Explain the working principle of Superconducting Magnetic Energy Storage	choice Q-12		15Marks	CO3	2	1
12.	Discuss the Coordination control technology of a microgrid with an energy storage system			15Marks	CO3	2	2
13.	Explain briefly how could a smart grid use energy storage best?	choice Q-14		10Marks	CO4	3	2
14.	Explain how would you describe power utilities' interest in energy storage			10Marks	CO4	3	3
15.	Discuss Active and reactive power coordination control of the microgrid	choice Q-16		15Marks	CO4	3	2
16.	Elucidate Impact of energy storage system on grid-connected new energy power generation			15Marks	CO4	3	3

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