



**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

**19EE3221 - AI AND IOT FOR GREEN ENERGY INTEGRATION**  
Set No: 4

Time:		Max.Marks: 100					
S.NO	Answer All Questions	Choice	Options	Marks	CO	CO BTL	COI BTL
1.	Describe the use of Proximity and Speed Sensors and actuator used in Wind energy systems with Neat sketch.	choice Q-2		10Marks	CO1	2	2
2.	Draw the signal condition circuits for displacement , proximity and Position sensing applications			10Marks	CO1	2	2
3.	Compare AWS, Google firebase and Thing speak	choice Q-4		15Marks	CO1	2	2
4.	Sketch the following sensors integration to ESP32/Raspberry Pi and Discuss the their communication Connectivity to the embedded boards. i) MPU6050 ii) LDR			15Marks	CO1	2	2
5.	Review of Outcome: Using ESP32 extract the Temperature Sensor data into AWS cloud.			25Marks	CO2	3	3
6.	Apply the Data exploration Techniques on data of home prices in popular states	choice Q-7		10Marks	CO3	4	3
7.	Using Pandas python library, illustrate how to get familiar with data.			10Marks	CO3	4	3
8.	Infer with comments the KNN ML model for clustering application	choice Q-9		15Marks	CO3	4	4
9.	Analyze the ML model using underfit and over fitting tuning methods			15Marks	CO3	4	4
10.	Review of Outcome: Using Jupiter notebook, using ML model visualise the weather data analysis. Link: <a href="https://www.kaggle.com/code/nibukdk93/weather-data-analysis/notebook">https://www.kaggle.com/code/nibukdk93/weather-data-analysis/notebook</a>			25Marks	CO4	4	4

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