Register Number:……..

KUMARAGURU
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B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2022

(Regulation 2018)

Fifth Semester

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

UI8CSR5203**:** IoT Analytics

COURSE OUTCOMES

CO1: Realize the need of Data analytics, types of data generated by IOT devices and data analytics tools.

CO2: Determine the appropriate data pre-processing and analysis strategy for IoT Data analytics.

CO3: Discover the benefits of IoT core services and create IoT resources.

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	List the types of data generated by IoT.	CO1	[K_1]
2.	Differentiate Data analysis and data analytics.	CO1	[K_2]
3.	Mention the tools & platforms used for IoT.	CO1	[K_1]
4.	Describe the use of numpy in Data Analytics.	CO2	[K_2]
5.	Define Data Visualization.	CO2	[K_1]
6.	How does the missing data processed in data analytics?	CO2	[K_1]
7.	What is data imputation?	CO3	[K_1]
8.	Summarize the uses of statistical analysis.	CO3	[K_2]
9.	Explain Model selection.	CO3	[K_2]
10.	Identify the role of AWS in IoT.	CO3	[K_1]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Explain classification with respective to IoT Analytics.	8	CO1	[K_3]
	b)	List the need of Data Analytics in IOT based real time applications.	8	CO1	[K_4]
12.	a)	Explore various data plotting schemes available for visualization.	8	CO1	[K_3]
	b)	Classify the types of time series data.	8	CO1	[K_3]

13.	a)	Explain the steps involved in the process of monitor and collect data from IoT sensors.	8	CO2	[K_4]
	b)	Examine role of outlier detection in prediction.	8	CO2	[K_4]
14.	a)	List the types of regression.	8	CO2	[K_4]
	b)	Compare linear and multiple regression.	8	CO2	[K_4]
15.	a)	Explain device management in IoT.	8	CO3	[K_3]
	b)	Analyze the role of device registry.	8	CO3	[K_4]
16.	a)	Analyze the role of AWS in IoT.	8	CO3	[K_3]
	b)	Explain device gateway.	8	CO3	[K_3]

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