Total No. of Questions: 8]	290	SEAT No. :
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D.E. (D.)		-4:

B.E. (Robotics & Automation)				
INTERNET OF THINGS AND MACHINE LEARNING				
(2019 Pattern) (Semester - VII) (411504 (B)) (Electiv	e IV)			
	Marks: 70			
Instructions to the candidates:				
1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.				
2) Neat diagrams must be drawn wherever necessary.3) Figures to the right indicate full marks.				
4) Assume suitable data if necessary.				
Q1) a) What is cloud storage?	[6]			
b) Which are the Characteristics of IoT Databases?	[6]			
c) Which are Wireless Media Access Issues in Internet of Thing	gs? [5]			
OR				
Q2) a) How does cloud storage work?	[6]			
b) State IoT Database Example Use Cases.	[6]			
c) Describe Wireless Sensors for the Internet of Things (IoT).	[5]			
Q3) a) What is the role of machine learning in automation?	[6]			
b) Which are the types of Machine Learning? Explain any one?	[6]			
c) Explain data collection and pre-processing techniques.	[5]			
OR OR				
Q4) a) What is Motivation and role of machine learning in Roll Automation?	ootics and [6]			
b) Explain the Machine learning Life cycle?	[6]			
c) What are the Uses of Clustering in ML?	[5]			
	P.T.O.			

Q 5)	a)	What is the ESP8266 Wi-Fi Module?	[6]
	b)	Describe ESP8266 WiFi Library for Arduino.	[6]
	c)	How to send sensor data to web server?	[6]
		OR	
Q6)	a)	Draw the circuit diagram how to use ESP8266 Wi-Fi Module.	[6]
	b)	How do web servers work?	[6]
	c)	Which are the steps to install and configure Apache Http Webserver PHP module in windows server machine.	and [6]
07)	,		T.C.1
Q 7)	a)	Why IoT is important in real life?	[6]
	b)	Which are the applications of IoT today? Explain in brief.	[6]
	c)	How to create the best patient tracking system for your hospital?	[6]
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Q 8)	a)	State and explain IoT Applications in Manufacturing.	[6]
	b)	How IoT is used in smart cars?	[6]
	c)	What is smart crop monitoring system using IoT?	[6]
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