C		Reg. No. :											
		Question P	aper	Cod	le: 5	5927	6						
	B.F	E. / B.Tech. DEGREE	E EXAI	MINA	ATIC	DN, N	ЛАҮ	201	8				
		Op	en elec	tive									
		Civil	Engine	eering	3								
		15UCS976 - IN	ITERN	ET O	F TH	ING	5						
	(Co	mmon to ECE, EEE,	EIE, N	Iecha	nica	l, IT,	Che	emic	al)				
		(Regu	ulation	2015)								
Dur	ation: Three hours								Maxi	imum	: 10	0 Ma	ırks
		Answer	ALL Ç	Juesti	ons								
		PART A -	(5x 1 =	= 5 M	larks	5)							
1.	What does a Hall Ef	fect sensor sense?										CO	l - R
	(a) Temperature	(b) Moisture	(c) N	Aagne	etic fi	ields			(d)	Pressu	ire		
2.	Which language is the Arduino IDE written in?											CO2	2- R
	(a) Java	(b) C	(c) (C++					(d)	PHP			
3.	board al	lows sewn into clothing	g.									CO	3- R
	(a) UNO	(b) Red Board	(c) I	LilyPa	d				(d)	Mega			
4.	is a web s collections.	standardized REST fi	ul mod	el for	inte	racti	ng w	rith				CO4	1- R
	(a) Sunspot	(b) Atom		(c) (Com	et			(d)	Proto	n		
5.	A Windows Failow	er Cluster can suppor	rt up to			node	es.					CO	5- R
	(a) 12	(b) 14	((c) 16)				(d)	18			
		PART – B	(5 x 3=	= 15 N	Mark	s)							
6.	Define Internet of	Things.										CO	1 - U

7. Differentiate sensor and actuators. CO2- R

8.	Des	ign an circuit to temperature sensor using suitable Arduino board.	CO3- R						
9.	Wri	te short notes on 'web hooks'.	CO4- R						
10.	Def	ine data synchronization.	CO5- U						
11		Free bin the detail show Collision Networks in Internet of this as	CO1 U	(10)					
11.	(a)	Explain the detail about Cellular Networks in Internet of things.	COI- U	(16)					
Or									
	(b)	Explain the functionalities of the mobile internet and wired communication in IoT.	CO1- U	(16)					
12.	(a)	Write a program for Parallel execution utilizing the Mthread library using threads.	CO2- Ana	(16)					
		Or							
	(b)	Explain the functionalities of cloud computing services for sensor management.	CO2- U	(16)					
13.	(a)	Design a circuit to connect the TMP36 temperature controller with Arduino board and explain it.	CO3- C	(16)					
Or									
	(b)	Design a circuit to automatic control for streets lights in smart city using suitable IoT toolkit and explain it.	CO3- C	(16)					
14.	(a)	Briefly explain about the Servicing Through a Uniform Interface in REST ful Smart Things.	CO4- U	(16)					
Or									
	(b)	Develop JSON representation of Temperature resource of sun spot. Explain your coding.	CO4- App	(16)					
15.	(a)	Explain in detail about the data synchronization techniques in IoT. Or	CO5- U	(16)					
	(b)	Explain in detail about the clustering principal in Internet of Things.	CO5-U	(16)					