Reg. No.:						

Maximum: 100 Marks

(d) Email

Question Paper Code: U9472

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

Open Elective

Electronics And Communication Engineering

21UEC972-IOT CONCEPTS AND APPLICATIONS

(Common To All Branches)

(Regulations 2021)

Duration: Three hours

(a) Gaming

(b) Coap

	Answer All	Questions					
	PART A - (5 x	x 1 = 5Marks)					
1.	The IPV6 has a notation for addressing						
	(a) Dotted decimals (b) Hexadecimal	(c) Both a and b	(d) None of the	above			
2.	Gateway provides the connection between	veen and		CO1-U			
	·						
	(a) Controller and device	(b) Network and Co.					
	(c) Network and Cloud	(d) Cloud and Contro	oller				
3.	Internet domain name and hostname are tra	nslated into IP address		CO1-U			
	by						
	(a) Domain name system	(b) Domain name dat	tabase				
	(c) Router	(d) Domain informat	ion system				
4.	The layer provide	les a security based		CO1-U			
	connection:						
	(a) Transport (b) Application	(c) Session	(d) Network				
5.	The XMPP implementation utilizes	·		CO1-U			

(c) Polling

PART - B (5 x 3= 15Marks)

6.	Clas	sify the Role of Wireless Sensor Networks in IoT.		CO1-U	
7.	Identify the different Topologies in IoT				
8.	Classify IoT Design methodology				
9.	Outline the characteristics of Python programming language.				
10.	O. State Which technology is used in IoT based gas leakage system.				
11.	(a) (b)	PART – C (5 x 16= 80Marks) Explain about the IoT characteristics with neat diagram. Or Summarize domain model specification & draw its structure in	CO1-U	(16) (16)	
	(0)	IoT system Design.		(10)	
12.	(a)	Examine the features and applications of several network infrastructures to determine which is the most beneficial to use. In your response, justify.	CO5-Ana	(16)	
	(b)	Or Study how the various network topologies are connected to one another and then clarify each one in terms of performance.	CO5-Ana	(16)	
13.	(a)	Inspect how does the Internet of Things (IoT) affect our everyday lives.	CO4-App	(16)	
	(b)	Or According to your knowledge, give a suitable example to demonstrate how the MQTT Protocols are different.	CO4-App	(16)	
14.	(a)	Provide an IoT solution for smart light and illustrate the design. Or	CO3-App	(16)	
	(b)	Give a detailed note on Advantage of GUI in building the IoT systems.	CO3-App	(16)	
15.	(a)	Design and develop a IoT based Smart grid and describe how it will benefit our lives.	CO2-App	(16)	
	(b)	Or Develop a plan for implementing waste segregation using IoT protocols and Discuss about it.	CO2-App	(16)	