Reg. No.							
		15.14.15					

Question Paper Code

12004

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL/MAY 2023

Second Semester

M.E. - Embedded Systems and Technology 20PESPC204 - INTERNET OF THINGS

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

$PART - A (10 \times 2 = 20 Marks)$

Answer ALL Questions

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1.	List the three compone	ents of IoT	Marks, K-Level, CO 2,K1,CO1				
2.	What are the components of WSN? Give some applications of WSN.						
3.	State the key feature of IoT Gateway.						
4.	List out the characteristics of cloud computing.						
5.	What is the use of neighbor discovery in node?						
6.	List the two network elements used in GPRS.						
7.	Compare predictive and prescriptive analytics.						
8.	Bring out the importar	nce of Business intelligence.	2,K1,CO5				
9.	Interpret Internet of Tl	hings diagrammatically.	2,K1,CO6				
10.	D. Bring out the best applications of IoT.						
		PART - B (5 × 13 = 65 Marks) Answer ALL Questions					
11.	a) Explain in detail t	he different protocols used in IoT.	13,K2,C01				
		OR					
	b) Explain the block the same.	diagram of IoT and discuss communication model of	13,K2,CO1				
12.	a) With the neat diagits application.	gram explain in detail the Bluetooth Architecture and	13,K2,CO2				
		OR					
	b) Explain the key st	andards and technologies used in IoT.	13,K2,CO2				
13.	a) Explain in detail	the establishment and the principle of operation of	13,K2,CO4				

OR

smart grid in detail.

- b) Write short notes on UWB communication along with its pros and 13,K2,CO4 cons.
- 14. a) Infer the importance of data visualization in Data analytics. List some 13,K2,CO5 of the tools for the same.

OR

- b) In your view identify the role of IoT to implement Electric vehicle 13.K2,CO5 charging.
- 15. a) The industry 4.0 helps in enhanced productivity. Justify the statement 13,K2,C06 with few case studies and discussions.

OR

b) Discuss on security and privacy risk in IoT applications.

13,K2,C06

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Explain the operation of RFID in detail and state its application.

15,K2,CO3

OR

b) Explain the topology supported in zigbee along with the application.

15,K2,CO3