# CBCS SCHEME

18CS81 USN

## Eighth Semester B.E. Degree Examination. Jan./Feb. 2023 Internet of Things

Time: 3 hrs. Mux. Marks

Note: Answer any FIVE full questions, chaosing ONE full question from each module.

## Module-L

- What is lold Discuss the evolutionary phases of the internet with near thagram 186 Markst List the difference between Operation Lechnology (O1) and Information Technology (IT). with their challenges 184 Marks
  - Explain the M2M to I Architecture with next diagram.

- Discuss the significant challenges and problems facing by left
  - (05 Marks) With neat diagram explain the simplified IsT architecture. (US Marks)
  - c. Describe the Fog layer in the foll data miniagement and computer stack with near diagram. and log computing characteristics. (DT Warks)

## Modute-2

- Define sensors. List the different categories of the sensors 105 Market
  - Describe the different sensor types with an example it inisiter my 8 sensor types
  - 19K Markst What is actuator and smart object of splain the different characteristics of smart object

### 107 Marks)

dik Marksi

- With neat diagram explain ZigBee IP protocol stack. 110 Market
  - Define LoRaWAN Explain LoRaWAN biyers with near diagram. (10 Ylarks)

### Module-3

- 5 Explain any six key advantages of the IP suite for fol-106 Warkst
  - With near diagram explain 6 bowPAN with and without header compression. (BR Warks)
  - Define RPI and list the different RPI, routing metrics and constraints of RFC 6551 travely ans

- Describe CoAP mesage format with near diagram 188 Marks
  - Explain MQTT message format and its types with neat diagram. IBR Markst
    - haplain for Data Hruker with an example 184 Markst

### Module-4

- Explain in detail how the lof data is categorized 486 Marks
  - With mor diagram explain the edge analytics processing that with its functions. 188 Marks
    - Explain MPP Databases with its architecture (III6 Marks)

Faif?

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### SIC

*	-1	Lyptani the Lacobeta architecture with near diagram	108 Marks
	1	With near diagram explain the Or. LAVE risk assessment harveworks.	108 Startes
		Listable advantages of LNI	104 374 rks1

## Module-5

4	.1	Write an	Ardamo program to ti	uplement the traffic	aght sinnlarkyr let	pedestrans
						A (10) 34

		,
i.	With real diseases a spansatic parts of Ruspherry Perfound.	rd8 Market
	Write a Raspberry Proprogram to projement blinkers in Li De-	out Markey

### HE

10	.:	Explain in detail followart parking urchnesting	IDE Marks
	b	With need discipling explain the sense of the cloud for season only applications	(10 Marks)
		Write a short note on Value to	402 Markst

2 of 1