

# TURE VISION

By K B Hemanth Raj

Visit: https://hemanthrajhemu.github.io

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Regards

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USN			15CS81
# 19 / P			

Eighth Semester B.E. Degree Examination, June/July 2019 **Internet of Things Technology** 

Time: 3 hrs.

Max. Marks: 80

ai	Note: Answer FIVE full questions, choosing one full question from each module.						
k pages. will be treated as malpractice.							
pra(			Module-1	(00.75 1)			
mal	1	a.	What is IOT? Explain in detail on Genesis of IOT.	(08 Marks)			
88		b.	What does IOT and digitaization mean? Elaborate on this concept.	(04 Marks)			
ated		c.	Write a short note on "IOT impact in Real World".	(04 Marks)			
Ţ, Ĕ							
ages I be			OR	(00 P# 1 )			
k pë wil	2	a.	Discuss IOT challenges.	(08 Marks)			
olan 50,	÷	b.	With a neat diagram, explain architecture of IOT.	(04 Marks)			
ng l 8		c.	Explain Core IOT functional stack.	(04 Marks)			
aini 42+							
eg,			Module-2	(00 B/Loules)			
ten	3	a.	List and explain different types of sensors.	(08 Marks)			
on l writ		b.	Elaborate on small physical objects and small virtual objects.	(04 Marks)			
nes ms '		c.	Explain "IOT Access Technologies".	(04 Marks)			
ss li: atic							
cro:	OR DEPT 200 15 A						
nal /or	4	a.	Briefly explain protocol stack utilization IEEE 802.15.4.	(08 Marks)			
ago and		b.	What is SANET? Explain some advantages and disadvantages that a wireless base	(00 Marila)			
× di ttor			offers.	(08 Marks)			
drav alua							
ily ev			Module-3	(08 Marks)			
ilson al tx	5	a.	Explain working of IP as the IOT network layer.	(04 Marks)			
npu		b.	Write note on Busines case for IP.	(04 Marks)			
, co.		c.	Discuss need for optimization.	(04 14111113)			
<ol> <li>On completing your answers, compulsorily draw diagonal cross lines on the remaining</li> <li>Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8</li> </ol>			OR				
unsv tific		_	Describe application protocols for IOT.	(08 Marks)			
ur a den	6	_ =====================================	Discuss the various methods used in IOT application transport.	(08 Marks)			
g yc of i		b.	Discuss the various methods used in 101 approactor damperer.	,			
eting ling		*****	Module-4				
npl vea	7	0	What do you mean by data and analytics for IOT? Explain.	(04 Marks)			
5 5 5	,	a. b.	That to journal by data that the same and th				
Q A			With a case study relate the concept of securing IOT.	(08 Marks)			
ci		c.	With a case study folder the concept of socialing 10 1.	,			
ote			OR				
Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be	8	a.	Explain in detail how IT and OT security practices and systems vary in real time.	(08 Marks)			
ortau	U	b. Discuss OCTAVE and FAIR formal risk analysis. (08)					
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Ų							

1 of 2

#### Module-5

9 a. Give a brief note on Arduino UNO.

(04 Marks)

b. With a neat diagram, explain Raspberry P<sub>i</sub> board.

(04 Marks)

c. With a neat diagram, explain wireless temperature monitoring system using Raspberry Pi.

(08 Marks)

OR

CMRIT LISKANI PRANCALORE - 500 C

10 a. Explain in detail smart city IOT architecture.

(08 Marks)

b. With the case study explain smart and connected cities using Raspberry Pi.

(08 Marks)

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By K B Hemanth Raj

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## **Quick Links for Faster Access.**

CSE 8th Semester - https://hemanthrajhemu.github.io/CSE8/

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ECE 8th Semester - https://hemanthrajhemu.github.io/ECE8/

## 8<sup>th</sup> Semester CSE - TEXTBOOK - NOTES - QP - SCANNER & MORE

17CS81 IOT - https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS81/

17CS82 BDA - https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS82/

17CS832 UID - https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS832/

17CS834 SMS - https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS834/

# 8<sup>th</sup> Semester Computer Science & Engineering (CSE)

8th Semester CSE Text Books: https://hemanthrajhemu.github.io/CSE8/17SCHEME/Text-Book.html

8th Semester CSE Notes: https://hemanthrajhemu.github.io/CSE8/17SCHEME/Notes.html

8th Semester CSE Question Paper: <a href="https://hemanthrajhemu.github.io/CSE8/17SCHEME/Question-Paper.html">https://hemanthrajhemu.github.io/CSE8/17SCHEME/Question-Paper.html</a>

8th Semester CSE Scanner: https://hemanthrajhemu.github.io/CSE8/17SCHEME/Scanner.html

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8th Semester CSE Answer Script: <a href="https://hemanthrajhemu.github.io/CSE8/17SCHEME/Answer-Script.html">https://hemanthrajhemu.github.io/CSE8/17SCHEME/Answer-Script.html</a>

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