

TURE VISION

By K B Hemanth Raj

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Regards

- K B Hemanth Raj (Admin)

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CBCS SCHEME

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Eighth Semest	er B.E. Degree E	Examination, Aug./Sep	t.2020
Interv	of of This	and Technology	

Max. Marks: 80

Note: i) For Regular Students: Answer any FIVE full questions irrespective of modules. ii) For Arrear Students: Answer any FIVE full questions, choosing ONE full question

		from each module.	estion
		Module-1	
1	a.	Define IoT and discuss the Genesis of IoT in detail.	(04 Marks)
	b.	List out the difference between IT and OT networks and their various challenges	(06 Marks)
	c.	List out the most significant challenges and problems that IoT is currently facing.	(oo Marks)
			(06 Marks)
			(
2	a.	List and explain the defining characteristics of fog computing.	(06.14
	b.	Explain the IoT reference model published by the IoTWF.	(06 Marks)
		The section of the for will	(10 Marks)
		Module-2	
3	a.	Define sensor and its characteristics.	(OC N/L 1)
	b.	List out the most useful classification scheme for the pragmatic application of section.	(06 Marks)
		IoT network.	
			(10 Marks)
4	а	Briefly describe about communication	
•		What are the main topologies used for L.T.	(08 Marks)
	٥.	what are the main topologies used for 101 connecting devices?	(08 Marks)
5	a.	What are the key advantages of the ID spite for the L. To	
	b.	What are the points to be considered while comparing the transport of the	(10 Marks)
		4 CEHINAL HELWORK Versils an III NI denloviment?	
		and the state of t	(06 Marks)
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0		Explain in detail COAP message format.	(08 Marks)
	Ů,	Explain Message Queuing Telemetry Transport (MQTT).	(08 Marks)
		A Section of the sect	
7	0	What are those I. T. I.	
1		Discuss the following:	(06 Marks)
	υ.		
5 6	b.	what are the points to be considered while comparing the transport of DLMS/CO a cellular network versus an LLN deployment? Explain in detail COAP message format. Explain Message Queuing Telemetry Transport (MQTT). Module-4 What are the ways IoT data is categorized? Explain in Late 1.	(08 Marks) (10 Marks) SEM over (06 Marks) (08 Marks) (08 Marks)

Supervised learning

(ii) Unsupervised learning

BANGALORE - 560 037

(10 Marks)

Explain any two Big data analytics tools and technologies.

(10 Marks)

Explain Lambda Architecture in details.

(06 Marks)

7 (iii) Neural Networks.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Module-5

9 a. What is Arduino? What are the advantages of Arduino? (06 Marks)
b. How to install arduino software for the windows PCs? (10 Marks)

10 a. Distinguish between Raspberry Pi and Arduino.

(04 Marks)

b. Develop a python program which monitors a temperature of an engine using DS18B20 sensor and Raspberry Pi. (12 Marks)

Further Vision



FUTURE VISION BIE

By K B Hemanth Raj

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