Code No: **R194204E** **R19** **Set No. 1**

IV B.Tech II Semester Supplementary Examinations, May/June – 2024

INDUSTRIAL INTERNET OF THINGS

(Electronics and Communication Engineering)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks
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UNIT I

1	a)	Explain the history of IIOT?	[7]
	b)	Explain data management analytics in detail.	[8]
		(OR)	
2	a)	What is hype cycle? Explain elaborately.	[7]
	b)	Explain any eight uses of IIOT?	[8]

UNIT II

3		Explain various architectures of IIOT?	[15]
		(OR)	
4	a)	Explain the sensor architecture.	[7]
	b)	Explain the BACnet.	[8]

UNIT III

5	a)	Explain about SPI.	[7]
	b)	Explain about Iaas.	[8]
		(OR)	
6		Explain about 6 LoWPAN elaborately.	[15]

UNIT IV

7	a)	What are the Vulnerabilities of IOT? Describe in detail.	[7]
	b)	Explain the role of analytics in IOT?	[8]
		(OR)	
8	a)	What threat analysis in IOT? Explain.	[7]
	b)	Explain the security model for IOT?	[8]

UNIT V

9	a)	What is the need for digital twin? Explain.	[7]
	b)	Explain the digital twin process design.	[8]
		(OR)	
10		Explain the Digital twin architecture.	[15]

Code No: **R1942051** **R19** **Set No. 1**

IV B.Tech II Semester Supplementary Examinations, May/June – 2024

MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

(Common to Computer Science &Engineering and Information Technology)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks

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UNIT I

1	a)	Discuss the major concepts of management.	[7]
	b)	What are the components of organisation?	[8]
		(OR)	
2	a)	What is departmentation and decentralization?	[7]
	b)	What is Management by Objectives (MBO)? Explain.	[8]
		UNIT II	
3	a)	Define HRM. And explain the functions and models of HRM.	[7]
	b)	What are the qualities required for HR Manager? Explain.	[8]
		(OR)	
4	a)	What are the methods of training and development? Describe.	[7]
	b)	What are the factors influencing wage and salary administration?	[8]
		UNIT III	
5	a)	What are the stages of strategic management?	[7]
	b)	What is mission? Explain various mission strategies with examples.	[8]
		(OR)	
6	a)	What is corporate planning process? Explain.	[7]
	b)	What are the primary activities of a value chain? Explain.	[8]
		UNIT IV	
7	a)	How do you define behaviour perception? Explain its significance.	[7]
	b)	What are the basic qualities of personality development?	[8]
		(OR)	
8	a)	What is Theory X and Theory Y explain with examples.	[7]
	b)	What are the basic principles of Herzberg's theory?	[8]
		UNIT V	
9	a)	What is a group and explain its types in detail?	[7]
	b)	What are some strategies for handling conflict? Explain in detail.	[8]
		(OR)	
10	a)	Differentiate between organisational climate and culture.	[7]
	b)	Define Stress. Explain causes and effects of stress.	[8]

Code No: **R1642051** **R16** **Set No. 1**

IV B.Tech II Semester Supplementary Examinations, May/June – 2024

DISTRIBUTED SYSTEMS

(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B
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PART–A *(14 Marks)*

1.	a)	Give the examples of distributed systems.	[3]
	b)	State and explain the concept of IP multicast.	[3]
	c)	Define remote method invocation.	[2]
	d)	Define process.	[2]
	e)	What is peer-to-peer systems?	[2]
	f)	Define active replications.	[2]

PART–B *(4x14 = 56 Marks)*

2.	a)	List and explain the design requirements for distributed architectures.	[7]
	b)	What are the challenges in distributed system? Explain.	[7]
3.	a)	Explain in detail about the UDP datagram communication.	[7]
	b)	What is group communication? Explain in detail.	[7]
4.	a)	Describe in detail about the case study of JAVA RMI.	[7]
	b)	With a neat diagram explain the concept of remote procedure call.	[7]
5.		Describe in detail about the creation of a new process.	[14]
6.	a)	Explain in detail about the concept of file service architecture.	[7]
	b)	Discuss in detail about distributed mutual exclusion.	[7]
7.		Illustrate in detail about distributed deadlocks with an example.	[14]