Code: 19CS4701B

IV B.Tech - I Semester – Regular Examinations - DECEMBER 2022

ADHOC AND SENSOR NETWORKS
(COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours   Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.
    2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
    3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
    4. All parts of Question paper must be answered in one place.

BL – Blooms Level   CO – Course Outcome

PART – A

		BL	CO
1. a)	What are the advantages of adhoc wireless networks?	L2	CO1
1. b)	Write short notes on hybrid routing protocol.	L2	CO2
1. c)	Classify network security attacks.	L2	CO3
1. d)	What is meant by TDMA?	L2	CO4
1. e)	Why transport layer issues formed?	L2	CO5

PART – B

			BL	CO	Max. Marks
		UNIT-I			
2	a)	Explain about Transport layer protocols.	L2	CO1	6 M
	b)	Discuss about Adhoc wireless internet with example.	L2	CO1	6 M

		OR			
3	a)	What are the design goals of MAC protocol for Adhoc wireless networks? Explain.	L2	CO1	6 M
	b)	Write short notes on media access protocol for wireless LANS.	L2	CO1	6 M
		UNIT-II			
4	a)	Discuss the issues in designing a routing protocol for adhoc wireless networks.	L2	CO2	6 M
	b)	Write the characteristics of an ideal routing protocol for adhoc wireless networks.	L2	CO2	6 M
		OR			
5	a)	Illustrate wireless routing protocol with example.	L3	CO2	6 M
	b)	Explain adhoc on-demand distance vector routing protocol.	L2	CO2	6 M
		UNIT-III			
6		Illustrate in detail the design goals of a transport layer protocol for adhoc wireless networks.	L3	CO3	12 M
		OR			
7		Explain in detail adhoc TCP.	L2	CO3	12 M

		UNIT-IV			
8		Show the implementation of MAC protocol in WSN's.	L3	CO4	12 M
		OR			
9		Explain in detail about clustered architecture in WSN's.	L2	CO4	12 M
		UNIT-V			
10	a)	Explain about QoS in adhoc wireless networks.	L2	CO5	6 M
	b)	Outline the issues related to transport layer in WSN's.	L2	CO5	6 M
		OR			
11		Demonstratre the coverage and exposure to improve the quality of sensor networks.	L3	CO5	12 M