R20 Regulation *Subject code:* **3E6GB**

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, February -2024

WIRELESS NETWORKS

(CSE(AI&ML))

Maximum Marks: 70 Date: 22.02.2024 Duration: 3 hours

	Part-A		
All the following questions carry equal marks (10X2M=20 Marks)		CO	Bloom Tx
1	What is wireless communication?	CO1	L1
2	Write the features of WiMax IEEE802.11.	CO1	L2
3	Mentions the issues in designing a MAC protocol for Adhoc Networks.	CO2	L2
4	What is Antenna Directivity?	CO2	L1
5	Name the main differences between multi-hop ad-hoc networks and IEEE 802.11 networks.	CO3	L1
6	Define table driven rooting protocol.	CO3	L1
7	How does indirect TCP differ from traditional TCP?	CO4	L4
8	What is snooping TCP?	CO4	L4
9	Define Adhoc Networks.	CO5	L1
10	What are the design challenges in Adhoc network?	CO5	L1
	Part-B		
Answer All the following questions. (5X10M=50Marks)			
11`	A. Explain electromagnetic Spectrum? [5] B. Discuss the characteristics of wireless channel? [5]	CO1	L2
	OR		
12	A. Explain the applications areas of ad hoc networks. [5] B. Differentiate Adhoc and Cellular network? [5]	CO1	L2 L3
13	A. List and explain the issues in designing a MAC protocol for ad hoc wireless networks [5] B. Classify MAC protocols for AdHoc networks and present an overview of the same. [5]	CO2	L1 L2
	OR		
14	A. List and explain the issues in designing a MAC protocol for ad hoc wireless network [5] B. Write the advantages of Directional antennas of MMAC Over MACAW [5]	CO2	L1 L2
15	A. Differentiate on demand and Hybrid protocols. [5] B. Explain in detail AODV routing protocol[5]	CO3	L3 L2
	OR		

16	A. Why does not TCP work well in ad hoc network? [5] B. List the objectives of the transport layer protocol. [5]	CO3	L1
17	A. Explain multicast routing algorithms in detail. [5] B. Explain on demand routing protocol in detail. [5]	CO4	L2
	OR		
18	A. What is TCP? Discuss with an example TCP over Adhoc Wireless Networks. [5] B. Explain the major challenges that a routing protocol designed for adhoc wireless networks face. [5]	CO4	L1 L2
19	A. Explain about the QOS in WSN. [5] B. Appraise the QOS related measures in WSN? [5]	CO5	L2 L3
	OR		
20	A. Discuss in detail about MAC Layer solution [5] B. What are the challenges is QOS? [5]	CO5	L2 L1