

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE  
(AUTONOMOUS)

IV B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH-2023  
WIRELESS NETWORKS AND MOBILE COMPUTING  
(Common to CSE & CSIT Branches)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

**PART-A**Answer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) Discuss about Wide Area Network (WAN).	[2M]	1	2
	b) What are the services provided by GSM?	[2M]	2	1
	c) What is meant by Encapsulation?	[2M]	3	1
	d) Write brief notes on congestion control.	[2M]	4	1
	e) What are the security problems in MANETs	[2M]	5	1

**PART-B**Answer **One Question from each UNIT (5X10=50M)**

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	Discuss about Generation of Wireless Networks.	[10M]	1	2
OR				
3.	a) What is Vehicular Adhoc Network? Explain.	[5M]	1	2
	b) Compare wired and wireless networks.	[5M]	1	3
UNIT-II				
4.	a) With a neat sketch explain GSM Architecture.	[7M]	2	3
	b) What is GPRS? Explain.	[3M]	2	2
OR				
5.	a) Explain how security is provided in GSM.	[5M]	2	3
	b) Explain the Architecture of Mobile Computing.	[5M]	2	2
UNIT-III				
6.	a) Discuss about Motivation for a specialized MAC.	[5M]	3	2
	b) Explain Dynamic Host Configuration Protocol (DHCP) in detail.	[5M]	3	2
OR				
7.	Explain about CDMA.	[10M]	3	2
UNIT-IV				
8.	a) Explain snooping TCP. What are its advantages and disadvantages?	[5M]	4	2
	b) Write brief notes on congestion control in traditional TCP.	[5M]	4	2
OR				
9.	a) Describe transaction oriented TCP.	[5M]	4	2
	b) Explain the advantages and disadvantages of Mobile TCP.	[5M]	4	2
UNIT-V				
10.	Explain the properties and applications of MANETs.	[10M]	5	2
OR				
11.	a) Compare the reactive and proactive routing protocols.	[5M]	5	3
	b) Explain destination sequence distance vector routing algorithm in MANETs.	[5M]	5	2

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