Reg. No.													
----------	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code 12274

## **B.E./B.Tech - DEGREE EXAMINATIONS, NOV/DEC 2023**

Sixth Semester

# **Computer Science and Engineering**

(Common to Information Technology)

### **CS8601 – MOBILE COMPUTING**

(Regulations 2017)

Duration: 3 Hours Max. Marks: 100

## PART - A $(10 \times 2 = 20 \text{ Marks})$

**Answer ALL Questions** 

		Marks, K-Level,CO				
1.	Define Mobile computing.	2,K1,CO1 2,K1,CO1				
2.	What are the different random assignment schemes in MAC?					
3.	List the three important features of GSM security features.	2,K1,CO2 2,K1,CO2				
4.	What are the major functions of RSS?					
5.	Differentiate between Tunneling and Reverse Tunneling.					
6.	List the uses of BOOTP protocol.					
7.	What are the attacks at various layers of MANET protocol?					
8.	Why traditional routing strategies cannot be deployed in a MANET?					
9.	Name the classes of wireless transaction protocol.					
10.	Define Wireless Application Environment.					
11.	PART - B (5 × 13 = 65 Marks)  Answer ALL Questions  a) Explain the working principle of FHSS and DSSS. He spectrum useful for mobile computing?  OR  b) Describe in detail about the Random assignment scheme	-				
12.	used in CDMA protocol.  a) Describe the GSM architecture and its services with a neat of	is that are				
	OR					
	b) Explain the distinguishing features of various generations cellular networks.	of wireless 13,K2,CO2				

13,K2,CO3

a) With a neat diagram, explain DHCP and its protocol architecture.

13.

### OR

- b) With a neat diagram explain how packet delivery to and from a 13,K2,CO3 mobile node is transferred in mobile IP.
- 14. a) (i) Draw and explain the architecture of VANET. 8,K2,CO4
  - (ii) Explain how does it differ from MANET. 5,K2,CO4

#### OR

- b) Discuss how multicast routing is carried out in ad-hoc networks. 13,K2,CO4
- 15. a) What are Snooping TCP and Mobile TCP? Explain their <sup>13,K2,CO5</sup> functionalities in the mobile environment with a neat diagram.

#### OR

b) Explain Wireless Transaction protocol and WDP in detail. 13,K2,CO5

## PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Explain with neat diagram the structure of M-Commerce and discuss 15,K2,CO6 about its applications.

### OR

b) What do you understand by the Mobile payment system? Briefly 15,K2,CO6 explain an application where mobile payment may be useful. Explain the different payment systems that are available.