

26.4

Reg. No.

Question Paper Code

11813

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023

Sixth Semester

Computer Science and Engineering**CS8601 - MOBILE COMPUTING**

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	<i>Marks, K-Level, CO</i>
1. Define Mobile computing.	2,K1,CO1
2. What are the different random assignment schemes in MAC?	2,K1,CO1
3. Differentiate the functionalities of Home agent and Foreign agent.	2,K2,CO2
4. Mention the supplementary services in GSM.	2,K1,CO2
5. What is Mobile IP?	2,K1,CO3
6. Why does Congestion occur in a network?	2,K2,CO3
7. Distinguish proactive and reactive protocols.	2,K2,CO4
8. Compare VANET and MANET.	2,K2,CO4
9. State the uses of WAP.	2,K1,CO5
10. Name the libraries specified by WMLScript.	2,K1,CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Explain the different categories of MAC protocols in detail.	13,K2,CO1
OR	
b) Discuss in detail with a neat diagram:	
(i) Hidden terminal problem.	7,K2,CO1
(ii) Exposed terminal problem.	6,K2,CO1
12. a) Explain in detail about the UMTS architecture and its services detail.	13,K2,CO2
OR	
b) Discuss in detail about the handover in GSM.	13,K2,CO2
13. a) What is encapsulation? Explain the various encapsulation techniques in mobile IP.	13,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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OR

b) Describe in detail about the Carrier Sense Multiple Access Protocols. *13,K2,CO3*

14. a) Explain the major types of security attacks that are possible in a mobile ad hoc network. *13,K2,CO4*

OR

b) Discuss how multicast routing is carried out in ad-hoc networks. *13,K2,CO4*

15. a) Illustrate with a neat diagram the working of WTA architecture and WSP in detail. *13,K2,CO5*

OR

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

PART - C (1 × 15 = 15 Marks)

16. a) Explain Android platform, software stack, SDK and its applications. *15,K2,CO6*

OR

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