

Reg. No.

Question Paper Code

11516

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

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. List the advantages of mobile computing. | 2,K1,CO1 |
| 2. State the objectives of MAC protocols. | 2,K1,CO1 |
| 3. What is the use of GSM in mobile telecommunication? | 2,K2,CO2 |
| 4. Explain the hidden and exposed terminal problem in infrastructure less network. | 2,K2,CO2 |
| 5. Distinguish proactive and reactive protocols. | 2,K2,CO4 |
| 6. Differentiate between Tunneling and Reverse Tunneling. | 2,K2,CO4 |
| 7. Differentiate Snoopy TCP and Mobile TCP. | 2,K2,CO5 |
| 8. List the functions of WTLS. | 2,K2,CO5 |
| 9. What are the constraints and requirements of Mobile OS? | 2,K2,CO6 |
| 10. What is M-Commerce? List its advantages. | 2,K2,CO6 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | |
|--|-----------|
| 11. a) Explain the various generations of mobile communication technologies. | 13,K2,CO1 |
| OR | |
| b) Discuss in detail about TDMA, FDMA and CDMA. | 13,K2,CO1 |
| 12. a) Explain the system architecture of GSM in detail. | 13,K2,CO2 |
| OR | |
| b) Explain the GPRS Protocol Architecture in detail. | 13,K2,CO2 |
| 13. a) (i) Explain the characteristics and applications of MANET. | 6,K2,CO4 |
| (ii) Explain hybrid routing protocol with an example. | 7,K2,CO4 |

OR

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

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b) Draw and Explain the architecture of VANET and discuss the various security and attacks in VANET. *13,K2,CO4*

14. a) Explain WAP Architecture in detail. *13,K2,CO5*

OR

b) Explain WSP in detail. *13,K2,CO5*

15. a) (i) Explain the components of Mobile Operating Systems. *5,K2,CO6*
(ii) Write Short notes on Android SDK. *8,K2,CO6*

OR

b) (i) Explain the various applications on M-Commerce. *6,K2,CO6*
(ii) Explain the Mobile Payment Schemes and Security issues. *7,K2,CO6*

PART - C (1 × 15 = 15 Marks)

16. a) (i) With a neat diagram, explain DHCP. *8,K2,CO3*
(ii) Describe Carrier Sense Multiple Access Protocols. *7,K2,CO3*

OR

b) With a neat diagram explain how packet delivery to and from a mobile node is transferred in mobile IP. *15,K2,CO3*