

Reg. No.

Question Paper Code

11925

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

Fifth Semester

Computer Science and Engineering
20CSPC503 - MOBILE COMPUTING

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|---|-------------------------------|
| 1. What are the use of RTS and CTS? | 2,K1,CO1 |
| 2. What is ALOHA? What are the different types of aloha? | 2,K1,CO1 |
| 3. Describe the function of HLR and VLR. | 2,K2,CO2 |
| 4. What is the frequency range of uplink and downlink in GSM network? | 2,K1,CO2 |
| 5. What are the main elements of UMTS? | 2,K1,CO3 |
| 6. What is GGSN? | 2,K1,CO3 |
| 7. Differentiate cellular with Ad Hoc networks. | 2,K2,CO4 |
| 8. Justify the reason for traditional routing strategies not deployed in a MANET? | 2,K2,CO4 |
| 9. State the objectives of WAP. | 2,K1,CO5 |
| 10. Discuss the service primitives offered by WTP? | 2,K2,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | |
|---|-----------|
| 11. a) Compare the various generations of Mobile Computing. | 13,K2,CO1 |
| OR | |
| b) Explain the various categories of TDM. | 13,K2,CO1 |
| 12. a) Describe GPRS System architecture with a neat diagram. | 13,K2,CO2 |
| OR | |
| b) Explain about the various handover by GSM? | 13,K2,CO2 |
| 13. a) Illustrate the architecture of LTE with a neat diagram and services. | 13,K2,CO3 |
| OR | |
| b) Describe in detail about 5G services. | 13,K2,CO3 |
| 14. a) Describe the Multicast Routing-ODMRP with an example. | 13,K2,CO4 |
| OR | |

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

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- b) Describe 7,K2,CO4
(i) Ad Hoc On-demand Distance Vector (AODV). 6,K2,CO4
(ii) Zone Routing Protocol.

15. a) Summarize the WDP protocol and draw the working flow architecture of WDP. 13,K2,CO5

OR
b) (i) Draw the architecture of WSP Session establishment, Suspension, resume, termination. 7,K2,CO5
(ii) Explain in detail WSP as a connectionless session service. 6,K2,CO5

PART - C (1 × 15 = 15 Marks)

16. a) Discuss the following: 15,K2,CO6
(i) Android SDK.
(ii) iOS SDK.
(iii) Windows Phone SDK.
(iv) M- Commerce.
- OR**
- b) Describe the mobile payment system and its security issues. 15,K2,CO6