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Question Paper Code	12190
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B.E. / B.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023

Seventh Semester

Computer and Communication Engineering
20CCPC701 - MOBILE COMMUNICATION
(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|--|-------------------------------|
| 1. List the applications of Mobile Computing. | 2,K1,CO1 |
| 2. Tell about the hidden and exposed terminal problems in a infrastructure less network. | 2,K1,CO1 |
| 3. What are GGSN and SGSN? | 2,K1,CO2 |
| 4. List the main components of UMTS. | 2,K1,CO2 |
| 5. What is Wireless PAN? | 2,K1,CO3 |
| 6. Differentiate between Wi-Fi and WiMAX. | 2,K1,CO3 |
| 7. Compare MANET and VANET. | 2,K1,CO4 |
| 8. What is encapsulation and decapsulation? | 2,K1,CO4 |
| 9. Tell about TR-SAP and S-SAP. | 2,K1,CO5 |
| 10. List the disadvantages of M-TCP. | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

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| 11. a) (i) Compare the various characteristics of cellular technologies. | 6,K2,CO1 |
| (ii) Explain briefly about 1G, 2G and 3G. | 7,K2,CO1 |
| OR | |
| b) With neat diagram explain about FDMA and SDMA. | 13,K2,CO1 |
| 12. a) Describe the GPRS architecture with neat diagram. | 13,K2,CO2 |
| OR | |
| b) What is GSM? Discuss the various security services offered by GSM. | 13,K2,CO2 |
| 13. a) Discuss about IEEE standard 802.11 system architecture in detail. | 13,K2,CO3 |

OR

b) Explain DFWMAC-DCF with RTS/CTS extension with neat diagram. *13,K2,CO3*

14. a) Describe about the DSR protocol in detail. *13,K2,CO4*

OR

b) What is Mobile IP? Explain the different entities and terminology in mobile IP. *13,K2,CO4*

15. a) Discuss about the components and interfaces of the WAP architecture with neat diagram. *13,K2,CO5*

OR

b) Explain in detail about Indirect TCP and Snooping TCP. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Discuss in detail about WTP class0, class 1 and class 2 with necessary diagrams. *15,K2,CO6*

OR

b) Explain how datagram is transferred in WTLS with neat diagram. *15,K2,CO6*