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R-17

Code: 7G384

IV B.Tech. II Semester Supplementary Examinations January 2022

Wireless Communications & Networks
(Electronics and Communication Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

Marks	CO	Blooms Level
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UNIT-I

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|-----------|--|-----|-----|----|
| 1. | Discuss various wireless communication systems | 14M | CO1 | L1 |
| OR | | | | |
| 2. | Explain in detail about Packet Radio Protocol | 14M | CO1 | L2 |

UNIT-II

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|-----------|---|-----|-----|----|
| 3. | Discriminate Wireless networks and fixed telephone networks. | 14M | CO2 | L1 |
| OR | | | | |
| 4. | Explain in detail about signaling system No-7 and its services. | 14M | CO2 | L2 |

UNIT-III

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|-----------|--|----|-----|----|
| 5. | a) Discuss about WAP protocol | 7M | CO3 | L1 |
| | b) Write about registration process of mobile IP | 7M | CO3 | L1 |
| OR | | | | |
| 6. | a) Classify and explain the encapsulations used in tunnelling. | 7M | CO3 | L1 |
| | b) Explain WAP session protocol | 7M | CO3 | L1 |

UNIT-IV

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|-----------|---|----|-----|----|
| 7. | a) Explain about the IEEE802.11 protocol architecture and services | 7M | CO4 | L2 |
| | b) Describe Spread spectrum LANs | 7M | CO4 | L1 |
| OR | | | | |
| 8. | a) Explain the functions of Logical link control and adaptation protocol in Bluetooth | 7M | CO4 | L1 |
| | b) Describe the radio specifications in Bluetooth | 7M | CO4 | L2 |

UNIT-V

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|-----------|--|-----|-----|----|
| 9. | a) Explain the protocol layers in GPRS | 7M | CO5 | L2 |
| | b) Discuss the short messaging service in GSM | 7M | CO5 | L1 |
| OR | | | | |
| 10. | Describe the HIPERLAN-1 with necessary diagrams. | 14M | CO5 | L1 |

END