

24-04-2023

Reg. No.

Question Paper Code

11792

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

Sixth Semester

Electronics and Communication Engineering

EC8004 - WIRELESS NETWORKS

(Regulations 2017)

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 components of Bluetooth? | 2,K1,CO1 |
| 2. What is Encapsulation? | 2,K1,CO1 |
| 3. Define Agent discovery. | 2,K1,CO2 |
| 4. What is Session Initiation Protocol? | 2,K1,CO2 |
| 5. What is SC-CDMA? | 2,K1,CO3 |
| 6. Differentiate the circuit switching and packet switching. | 2,K2,CO3 |
| 7. What are the requirements of internetworking? | 2,K1,CO4 |
| 8. Differentiate tight coupling and loose coupling between WLAN and GPRS. | 2,K2,CO4 |
| 9. List the features of 4G. | 2,K1,CO5 |
| 10. List the access schemes for multichannel multipoint distribution system. | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | |
|--|-----------|
| 11. a) Draw the protocol architecture and describe the components of WLAN in detail. | 13,K2,CO1 |
| OR | |
| b) Explain in detail the architecture of Bluetooth. | 13,K2,CO1 |
| 12. a) Discuss the need of agent advertisement with packet format. | 13,K2,CO2 |
| OR | |
| b) Describe the mobile Session Initiation Protocol. | 13,K2,CO2 |
| 13. a) Explain the UTRAN Architecture with neat diagram. | 13,K2,CO3 |
| OR | |
| b) Explain TD-SCDMA architecture. | 13,K2,CO3 |

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

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14. a) Explain in detail about tight coupling approach between WLAN and GPRS. *13,K2,CO4*

OR

b) What is the need for session mobility? Explain in detail. *13,K2,CO4*

15. a) Explain IMS Architecture. *13,K2,CO5*

OR

b) Explain the functions and architecture of Broadband Wireless Access. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain the Protocol Architecture of 6LoWPAN. *15,K2,CO6*

OR

b) Describe the components of the MMDS architecture. *15,K2,CO6*