

04/01/2023

Reg. No.

Question Paper Code

11560

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

Sixth Semester

Information Technology

IT8602 - MOBILE COMMUNICATION

(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 out the differences between mobile computing and wireless networks. | 2,K1, CO1 |
| 2. What are issues in the MAC layer? | 2,K1, CO1 |
| 3. What is meant by frequency reuse? | 2,K1, CO2 |
| 4. Mention the services provided by GSM. | 2,K2, CO2 |
| 5. What is piconet and scatternet? | 2,K1, CO3 |
| 6. What are the four prominent wireless technologies? | 2,K1, CO3 |
| 7. What are the basic principles of Ad-hoc networking? | 2,K1, CO4 |
| 8. Distinguish between reactive and proactive protocols. | 2,K2, CO4 |
| 9. Define time out freezing. | 2,K1, CO5 |
| 10. Differentiate snooping TCP and indirect TCP. | 2,K2, CO5 |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Briefly explain FDMA, CDMA, and TDMA. 13,K2,CO1
- OR**
- b) Explain the generations of mobile communication and compare their features. 13,K2,CO1
12. a) Discuss the GSM architecture and its services. 13,K2,CO2
- OR**
- b) Explain in detail GPRS architecture and its protocol stack. 13,K2,CO2
13. a) (i) Discuss the MAC layer functions of IEEE802.11. 7,K2,CO3
(ii) Mention the key requirements of wireless LAN. 6,K2,CO3
- OR**
- b) Discuss in detail about Wi-Fi and WiMax. 13,K2,CO3

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

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14. a) Explain the working of DHCP. *13,K2,CO4*
OR
b) Draw and explain the architecture of VANET. Compare VANET and MANET. *13,K2,CO4*
15. a) Describe how mobile TCP improves TCP efficiency for mobile networks? How does mobile TCP maintain end to end semantics? *13,K2,CO5*
OR
b) Discuss WAP architecture. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain how routing is done in Adhoc network with any one routing protocol. *15,K2,CO4*
OR
b) Explain in detail about the key mechanisms associated with Mobile IP. *15, K2,CO4*