

- N.B :- (1) Attempt any five questions but not more than three questions from any section
 (2) Answers to the two sections must be written in separate answer books and should be submitted separately.
 (3) Write answers to same question together.
 (4) Each question carries 15 marks .

Section I

1. a) Explain what are the problems encountered during propagation of signals in a wireless network. 05
 b) Explain how does code division multiplexing help in transmission of information over wireless networks? State its advantages and disadvantages. 05
 c) Explain the reasons why baseband signal cannot be directly transmitted in wireless systems. 05
- OR**
2. a) What is roaming? List and explain the steps for roaming between access points. 06
 b) Write a shoet note on:
 i. Exposed terminals
 ii. Tele services in GSM networks. 05
 c) What are foreign and home agents? Explain the registration of a kobile node via the foreign agent with the home agent. 04
3. a) State the characteristics and system arcitecture of a DECT network. 06
 b) What are ad-hoc networks? State their advantages and disadvantages. 04
 c) Write short note on mobile terminated calls. 05
- OR**
4. a) Write a short note on MACand Location management. 04
 b) What is DHCP? Explain the process of client initialization via DHCP. 06
 c) State advantages and disadvantages of HAWAII. 05
5. a) What are the ggeneral problems of Mobile IP regarding security and support of quality of service? 04
 b) How does caching improve access time and reduce bandwidth requirements? Explain. 05
 c) Write short note on :
 i. WAP
 ii. Reservation TDMA 06
- OR**
6. a) How and why does I-TCP isolate problems on the wireless link? What are the main drawbacks of this solution? 06
 b) What problems of HTTP can WSP solve? Why are these solutions especially needed in wireless mobile environments? 05
 c) What is broadcasting? Explain inbrief digial audio broadcasting. 04

Section II

7. a Explain the situations where LAN switch is prefer instead of routers. 8
 b List the steps involved in Network Designing. 7
- OR**
8. a Discuss the advantages and disadvantages of SONET. 8
 b Write note on ESCON (Enterprise System Connection) Architecture. 7
9. a Discuss the benefits of Frame Relay over Private Line Networks. 8
 b Compare Open and Closed Loop architectures. 7
- OR**
10. a Write note on Link Access Protocol, Balanced (LAPB) 8
 b Explain the various possible causes of delay in the network. 7
11. a Write note on Switched MultiMegabit Data Service (SMDS). 8
 b Discuss the technical requirements and strategies that should be consider before designing the network. 7
- OR**
12. a Describe the situations where the following technologies are preferred 8
 i. IP Service ii. Public Data Service
 iii. X.25 Service iv. Private Line
 b What is TCP? Give the TCP frame format and TCP/IP functions. 7