



- Notes : 1. All questions carry marks as indicated.
2. Diagrams should be given wherever necessary.

1. a) What are the disadvantages of wired communication over wireless communication explain with examples 8
b) Explain the various handover's in G.S.M. with neat diagram. 8
OR
2. a) Describe various services offered by GSM. 8
b) Write a note on following w.r.t. GSM. 8
i) SIM ii) MSC (Mobile Switching Centre)
iii) EIR iv) HLR & VLR
3. a) Compare SDMA, FDMA, TDMA 8
b) Discuss the solution of "Hidden and exposed terminals" & "Near and far terminals" with examples. 8
OR
4. a) Explain 'IP packet delivery' in Mobile IP. 8
b) Explain Dynamic Host Configuration Protocol with neat diagram. 8
5. a) Discuss Traditional TCP and Indirect TCP with diagram. 8
b) Explain 'Fast Retransmit/Fast Recovery' and 'Mobile TCP'. 8
OR
6. a) Describe Hoarding Techniques in Mobile Transport Layer. 8
b) What is cache invalidation mechanism? Explain in detail. 8
7. a) Explain selective Tuning Technique in detail. 8
b) Explain in brief "Communication Asymmetry" with neat diagram. 8
OR
8. a) What are the various properties and applications of MANET. 8
b) Explain security in MANET's. 8
9. a) Draw and explain WAP protocol Architecture. 8
b) Write a note on 'J2ME'. 8
OR
10. Explain the following w.r.t. Bluetooth. 16
i) Security ii) Link Management
iii) Networking iv) MAC Layer
