

AQ-1129

M.Sc. (Part-II) Semester-IV (CBCS Pattern)

Examination

COMPUTER SCIENCE

4 MCS 4 (1) : Mobile Communications

Time : Three Hours]

[Maximum Marks : 80

Note :— All questions carry marks as indicated.

1. (a) Define Mobile Communication. Explain it's applications. 6
- (b) Explain :
 - (i) Spread Spectrum
 - (ii) Modulation. 8

OR

2. (a) Explain Simplified Reference Model for Mobile Communication. 6
- (b) Explain :
 - (i) Multiplexing
 - (ii) Signal Propagation. 8
3. (a) Explain the need of Specialized Medium Access Control-mechanism in Mobile Communication. 7
- (b) Compare SDMA with TDMA. 6

OR

4. (a) Explain :
 (i) TEIRA
 (ii) IMT-2000. 7
 (b) Compare CDMA with FDMA. 6
 5. (a) Explain Satellite System with its applications. 6
 (b) Explain :
 (i) Cyclical Repetition of Data
 (ii) Convergence of Broadcasting. 8

OR

6. (a) Explain :
 (i) Routing
 (ii) Localization. 8
 (b) Compare Digital Audio Broadcasting with Digital Video Broadcasting. 6
 7. (a) Compare Infrared with Radio Transmission. 6
 (b) Explain :
 (i) IEEE 802.11
 (ii) HIPERLAN. 7

OR

8. (a) Explain Infrastructure and Ad-hoc Network for Wireless LAN. 7
 (b) What is Bluetooth ? Explain its importance. 6

9. (a) Explain :
 (i) DHCP
 (ii) Mobile IP. 6
 (b) Explain Traditional TCP and Classical TCP improvements for Mobile Transport Layer. 7

OR

10. (a) Explain Mobile Ad-hoc Network in detail. 6
 (b) Explain TCP over 3G wireless networks. 7
 11. (a) Explain Wireless Application Protocol in detail. 6
 (b) Explain :
 (i) WWW
 (ii) i-Mode. 7

OR

12. (a) Explain :
 (i) WAP 2.0
 (ii) SyncML. 7
 (b) Explain various file systems which support mobility. 6