

328711(28)

B. E. (Seventh Semester) Examination, 2020

(Old Scheme)

(Et & T Branch)

MOBILE & CELLULAR COMMUNICATION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each unit is compulsory. Solve any two from remain i.e. from (b), (c) and (d). Each unit carry equal marks.

Unit-I

1. (a) List out the Antenna diversity schemes. 2
- (b) Explain LPC vocoding in details. 7

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- (c) Explain the problem associated with hidden and exposed terminals, if Slotted Aloha, Reservation or MACA is used. 7
- (d) Write short notes on : (any one) 7
- (i) Properties compare of SDMA, FDMA and CDMA
 - (ii) FHSS and DSSS Technology
 - (iii) WLAN and SMAC

Unit-II

2. (a) Write the Upload and Download satellite frequency. 2
- (b) Explain the GSM system Architecture. 7
- (c) Write short notes on : (any one) 7
- (i) Need Handover and explain its
 - (ii) GEO, MEO and LEO satellite system
- (d) What are the security service of GSM? Explain them. 7

Unit-III

3. (a) What do you mean by Roaming? 2
- (b) Give the comparison between IEEE 802.11, Hiper LAN 2 and Bluetooth. Write the application them. 7

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- (c) Write short notes on : (any one) 7
- (i) HIPER LAN & WLAN
 - (ii) GPRS and DECT
 - (iii) Application of physical layer and MAC layer

Unit-IV

4. (a) List the two advantages of Mobile Network. 2
- (b) List the TCP and explain any two TCP. 7
- (c) Explain the use of IPv 6 offer for Mobility? Where are the entities of Mobile-IP Now? 7
- (d) Write short notes on freezing. 7

Unit-V

5. (a) Write the two difference between in-band and out-of-band signaling. 2
- (b) Explain basic signaling Architecture of SS7. 7
- (c) Explain AIN Releases and AIN Services in detail. 7
- (d) Write short notes on Network evolution and benefit of the intelligent Network. 7