

Master's Degree Examination – November 2017  
III / V Semester

Class : II M.Sc. / III M.C.A.  
Major : Computer Science / Computer Applications

Time: 3 hours  
Max. Marks: 60

**12MCSC15/ 12MCAC30 Mobile Communications**

Part A

10 x 1/2 = 5

Choose the correct answer

1. \_\_\_\_\_ and \_\_\_\_\_ computing allows for spontaneous Networking with prior set-up of an infrastructure  
a. Wired/Mobile      b. Fixed/Wireless      c. Wireless/Mobile      d. Mobile/Wired
2. In \_\_\_\_\_ hopping, the transmitter uses one frequency for several bit periods  
a. fast      b. slow      c. frequency      d. both a and b
3. \_\_\_\_\_ presents a simple scheme that solves the hidden terminal problem  
a. TDMA      b. ISMA      c. DSMA      d. MACA
4. \_\_\_\_\_ service only use the function of the physical layer to transmit layer  
a. Transport bearer      b. Transparent bearer      c. Tele      d. Transit network
5. The \_\_\_\_\_ angle is defined as the angle between the equatorial plane and the plane described by the satellite orbit  
a. Inclination      b. Elevation      c. Base      d. Foot Print
6. A Digital audio broadcasting system can use \_\_\_\_\_ network  
a. SWR      b. FIB      c. SF      d. MF
7. \_\_\_\_\_ technology uses diffuse light reflected at walls and furniture  
a. LED      b. Radio Transmission      c. HiperLAN2      d. Infrared
8. The \_\_\_\_\_ is the current subnet the MN visits and which is not the home network  
a. Foreign network      b. Home network      c. Mobile node      d. Foreign agent
9. \_\_\_\_\_ allows selective retransmission of packets  
a. MTU      b. SACK      c. RTT      d. ECN
10. \_\_\_\_\_ has built-in mechanisms to behave in network friendly  
a. UDP      b. IP      c. TCP      d. both a and b

**Part B**

**5 x 4 = 20**

**Answer ALL questions**

**Answer should not exceed 200 words or one page**

11.a. Write short note on a simplified reference model?

(Or)

11.b. Explain Multi Path Propagation?

12.a. Explain in detail about hidden and exposed terminals and near and far terminals?

(Or)

12.b. Write short note on DECT?

13.a. Explain satellite system Applications?

(Or)

13.b. Write short note on cyclical repetition of data?

14.a. Explain in detail about Infrastructure and ad-hoc network?

(Or)

14.b. Write short note on Dynamic host configuration protocol?

15.a. Explain in detail about TCP over 2.5/3G wireless network?

(Or)

15.b. Write short note on Mobile Commerce?

**Part C**

**5 x 7 = 35**

**Answer ALL questions**

**Answer should not exceed 600 words or three pages**

16.a. Write the History of wireless communication?

(Or)

16.b. Write short note on Multiplexing?

17.a. Write short note on TDMA?

(Or)

17.b. Write short note on GSM?

18.a. Explain in detail about BASIS? Localization in satellite systems.

(Or)

18.b. Write Detailed note on Digital video broadcasting?

19.a. Write Detailed note on Bluetooth?

(Or)

19.b. Explain in detail about mobile ad-hoc network?

20.a. Write short note on classical TCP improvements?

(Or)

20.b. Explain in detail about applications for future of mobile communication?

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