M. C. A. (Sem. IV) Examination
April / May - 2018
P-4040 : Mobile Computing

Faculty Code : 003
Subject Code : 1074004

Time : Hours]   [Total Marks : **70**

1 (a) Answer the following :   **4**

   (1) Give full form of PSK.

   (2) Give full form of CDMA.

   (3) Give full form of SDM.

   (4) Give full form of TDM.

   (b) Answer any one in brief :   **2**

   (1) What is frequency ?

   (2) What is signal propagation ?

   (c) Answer any one in detail :   **3**

   (1) What is Multiplexing ? List types of multiplexing.

   (2) Explain Spread Spectrum ?

   (d) Answer any one :   **5**

   (1) Explain FDMA.

   (2) What is modulation ? Explain ASK and FSK.

2 (a) Answer the following : **4**

(1) Give full form of MAC.

(2) Give full form of DHCP.

(3) Roaming enables a mobile device to access the Internet and other mobile services when out of its normal coverage area. True or false ?

(4) _____ is a protocol that allows for the secure movement of data from one network to another.

(b) Answer any one in brief : **2**

(1) What is IPV6 ?

(2) What is Bluetooth ?

(c) Answer any one in detail : **3**

(1) Differentiate : Infrared vs. Radio transmission

(2) Explain DHCP.

(d) Answer any one : **5**

(1) Explain 802.11 architecture.

(2) What is mobile IP ? Explain the components of mobile IP.

3 (a) Answer the following : **4**

(1) Give full form of TCP.

(2) Indirect TCP splits TCP connection into two connections. True or False ?

(3) Selective retransmission retransmit only lost data. True or False ?

(4) TCP is connection less protocol. True or False ?

(b) Answer any one in brief : **2**

(1) What is TCP ?

(2) What is snooping TCP ?

(c)   Answer any one in detail :   3

     (1)   Explain fast retransmit/fast recovery.

     (2)   Explain selective retransmission.

(d)   Answer any one :   5

     (1)   Write a note on indirect TCP.

     (2)   Explain TCP over 2.5/3G wireless network
          and performance enhancing proxies.

4   (a)   Answer the following :   4

     (1)   Give full form of WDP.

     (2)   Give full form of WTLS.

     (3)   Give full form of WTP.

     (4)   _____ is an open standard for maintaining
          high level session.

(b)   Answer any one in brief :   2

     (1)   List protocols of Mobile computing.

     (2)   What is WML ?

(c)   Answer any one in detail :   3

     (1)   Write steps for the mechanism of MMS.

     (2)   Explain push architecture.

(d)   Answer any one :   5

     (1)   Explain SMS architecture.

     (2)   Write a note on WAP architecture.

5 (a) Answer the following : 4

   (1) _____ was the first CDMA-based digital cellular technology.

   (2) Give full form of BSS.

   (3) Give full form of GPRS.

   (4) Mobile station is part of GSM. True or False ?

   (b) Answer any one in brief : 2

   (1) What is 3G network ?

   (2) What is W-CDMA ?

   (c) Answer any one in detail : 3

   (1) Explain the process of outgoing call in GSM.

   (2) List the different application of GPRS.

   (d) Answer any one : 5

   (1) Write a note on CDMA.

   (2) Write a note on GSM.

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