BRAINWARE UNIVERSITY
Term End Examination 2020 - 21
Programme – Master of Technology in Computer Science & Engineering
Course Name – Mobile Computing
Course Code - PEC-MCS301A
Semester / Year - Semester III

Time allotted : 75 Minutes   Full Marks : 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)   1 x 60=60

1.   *(Answer any Sixty)*

(i) The frequency band designated for PCS in North America is_____.

a) 700 MHz   b) 600 MHz

c) 1.9 GHz   d) 13GHz

(ii) In GSM, voice channels are called_____.

a) traffic channels   b) voice channels

c) bearer channels   d) talking channels

(iii) Other things being equal, battery life in a GSM phone should be_____.

a) less than in a TDMA phone   b) no better than in an AMPS phone

c) greater than in a TDMA phone   d) no better than a TDMA phone

(iv) IMSI stands for_____.

a) Integrated Mobile Subscriber Identification   b) International Mobile Subscriber Identification

c) Interim Mobile Subscriber Identification   d) Intermodulation System Interference

(v) IS-136 uses_____.

a) frequency hopping   b) TDMA

c) CDMA   d) all of these

(vi) CDMA uses a set of PN sequences that are_____.
  a) Common   b) Unique
  c) Rotating   d) Orthogonal

(vii) GPRS stands for_____.
  a) General Packet Repair Service   b) Graphics Packet Radio Service
  c) General Packet Radio Service   d) None

(viii) Choose a correct abbreviation below.
  a) SGSN - Serving GPRS Support Node   b) GGSN - Gateway GPRS Support Node
  c) IP - Internet Protocol   d) All of these

(ix) Type-A Mobile Station supports _____.
  a) Only Speech   b) Only Data
  c) Speech and Data Simultaneously d) Speech or Data one at a time.

(x) An EDGE connection is _____.
  a) CS data   b) PS data
  c) Both CS data & PS data   d) None of these

(xi) In a GPRS network, SGSN is the equivalent of _____ system in GSM.
  a) BSC   b) MSC
  c) VLR   d) GMSC

(xii) To calculate processing gain, divide the transmitted RF bandwidth by:
  a) the digital data bit rate   b) bandwidth of original baseband
  c) the S/N ratio   d) the chip size

(xiii) A receiver for direct-sequence spread-spectrum would be_____.

    a) a narrowband receiver   b) a wideband receiver

    c) a direct-conversion receiver   d) a "chip-rate" receiver

(xiv) What are the functions of a CCU?

    a) Power Control   b) Timing Advance

    c) Coding algorithms   d) All of these

(xv) In version field of IPv4 header, when machine is using some other version of IPv4 then datagram is _____.

    a) Discarded   b) Accepted

    c) Interpreted   d) Interpreted incorrectly

(xvi) Network layer at source is responsible for creating a packet from data coming from another _____.

    a) Station   b) Link

    c) Node   d) Protocol

(xvii) In IPv4 layer, datagram is of_____.

    a) Fixed length   b) Variable length

    c) Global length   d) Zero length

(xviii) Which protocol is commonly used to retrieve email from a mail server?

    a) FTP   b) IMAP

    c) HTML   d) TELNET

(xix) You want to implement a mechanism that automates the IP configuration, including IP address, subnet mask, default gateway, and DNS information. Which protocol will you use to accomplish this?

    a) SMTP   b) SNMP

    c) DHCP   d) ARP

(xx) Which of the following is not currently a factor in the development of m-commerce?

a) Availability of devices   b) Reluctance of vendors

c) Bandwidth improvements   d) Declining prices

(xxi) This software acts as a bridge between various wireless networks. What type of software is being described?

a) Wireless middleware   b) Application middleware

c) Microbroswer   d) Mobile client operating system

(xxii) Length of Port address in TCP/IP is _____.

a) 4bit long   b) 16bit long

c) 32bit long   d) 8bit long

(xxiii) Bluetooth network consists of one primary device and up to_____.

a) 5 Devices   b) 7 Devices

c) 9 Devices   d) 11 Devices

(xxiv) Each station can send data without the need to since line is_____.

a) full duplex Ethernet   b) half duplex Ethernet

c) both full duplex Ethernet &half duplex Ethernet   d) None

(xxv) Exact range of Bluetooth devices are_____.

a) 10 m   b) 20 m

c) 30 m   d) 40 m

(xxvi) Range of Bluetooth devices are_____.

a) Low power   b) High power

c) No power   d) Static power

(xxvii) In Bluetooth LAN, the devices are called_____.

a) Nodes

b) Gadgets

c) Piconet

d) Entity

(xxviii) A Bluetooth LAN by nature, cannot be_____.

a) Small

b) Large

c) Thin

d) Thick

(xxix) ACL stands for_____.

a) Asynchronous Connectionless Link

b) Asynchronous Connection Link

c) Asynchronous Connected Link

d) Asynchronous Communication Link

(xxx) A Circuit-Switched Network is made of a set of switches connected by physical_____.

a) Links

b) Media

c) Nodes

d) Lines

(xxxi) Packets of data that is transported by IP is called_____.

a) Datagrams

b) Frames

c) Segments

d) Encapsulate message

(xxxii) L2CAP have specific duty of_____.

a) Multiplexing

b) quality of service

c) segmentation and reassembly

d) All of these

(xxxiii) In cellular telephony, Electronic Serial Number (ESN) is unique for each_____.

a) Station

b) Module

c) Mobile

d) Frame

(xxxiv) Classful addressing is replaced with_____.

a) Subclass addressing   b) Fully occupied addresses

c) Upper-class addressing   d) Classless addressing

(xxxv) An interconnected collection of piconet is called _____.

a) Scatternet   b) Micronet

c) Mininet   d) Multinet

(xxxvi) Bluetooth is the wireless technology for _____.

a) local area network   b) personal area network

c) metropolitan area network   d) wide area network

(xxxvii) In a piconet, one master device _____.

a) can not be slave   b) can be slave in another piconet

c) can be slave in the same piconet   d) can be master in another piconet

(xxxviii) Bluetooth supports _____.

a) point-to-point connections   b) point-to-multipoint connection

c) both point-to-point connections and point- d) multipoint to point connection
to-multipoint connection

(xxxix) A scatternet can have maximum _____.

a) 10 piconets   b) 20 piconets

c) 30 piconets   d) 40 piconets

(xl) Asynchronous Transfer Mode (ATM) network is an example of_____.

a) Packet switching network   b) Datagram Networks

c) Virtual circuit network   d) message switched network

(xli) VCIs in Frame Relay are called_____.

a) SVC   b) PCIs

c) DLCIs.   d) PVC

(xlii) Parameter that is normally achieved through a trailer added to end of frame is_____.

a) Access Control

b) Flow Control

c) Error Control

d) Physical addressing.

(xliii) Which of the following has no backward compatibility with 3G Cdma2000?

a) IS-95

b) GPRS

c) IS-95A

d) IS-95B

(xliv) Which of the following the first 3G CDMA air interface?

a) IS-95

b) IS-95B

c) Cdma2000 1xRTT

d) CdmaOne

(xlv) Cdma2000 1xEV was developed by _____

a) Motorola

b) AT&T Laboratories

c) Qualcomm

d) NTT

(xlvi) What are the two options provided by Cdma2000 1xEV?

a) Cdma2000 1xRTT. Cdma2000 3Xrtt

b) Cdma2000 1xEV-DO, Cdma2000 1xEV-DV

c) Cdma2000 1xEV-DT, Cdma2000 1xEV-DO

d) Cdma2000 1xRTT, Cdma2000 1xEV-DV

(xlvii) What is the name of 300 MHz of unlicensed spectrum allocated by FCC in ISM band?

a) UNII

b) Unlicensed PCS

c) Millimetre wave

d) Bluetooth

(xlviii) CDMA stands for_____.

a) Code-Division Multiple Access

b) Carrier Division Multiple Access

c) Compact Digital Multiplex Arrangement d) none of these

(xlix) Which of the following statements is true about Java ME

a) Java ME is a single specifications

b) Java ME is a family of related specifications

c) Java ME is a platform for creating applications for the well-established desktop market.

d) Java ME is a platform for creating server-side enterprise applications

(l) What is profile?

a) A profile defines a set of class libraries available for a wide range of devices

b) A profile defines a horizontal set of classes that a configuration can use

c) A profile defines the set of APIs available for a particular family of devices.

d) A profile is the foundation for a configuration

(li) The foundation profile_____.

a) Extends the CDC by adding the missing user interface APIs

b) Extends the CLDC by adding the missing Java 2, Standard Edition (J2SE) core libraries

c) Is meant to serve as a foundation for other profiles

d) All of these

(lii) The CLDC does not address user interface issues. They are lift to be handled by the_____.

a) Foundation profile

b) Personal profile

c) Mobile information Device Profile (MIDP)

d) None

(liii) A Java ME- enabled device

a) Can support only a single profile

b) Can support multiple profiles

c) Both Can support only a single profile & Can support multiple profiles

d) None

(liv) In the CDC, user interface issues are handled by the_____.

a) Foundation profile

b) Personal profile

c) Mobile information device profile
(MIDP)

d) None

(lv) The CDC targets devices with _____of total memory available for the
Java platform, including both RAM and flash or ROM

a) 160 KB

b) 256KB

c) 512 KB

d) 2 MB or more

(lvi) The MIDP, the maximum length of a record store name is_____.

a) 8 characters

b) 32 characters

c) 128 characters

d) 256 characters

(lvii) A midlet is a Java class that extends the abstract class_____.

a) javax.microedition.MIDlet

b) javax.microedition.midlet

c) javax.microedition.midlet.MIDlet

d) javax.microedition.midlet.midlet

(lviii) Which one of the following methods of the MIDlet abstract class must be
implemented by a midlet?

a) initApp, startApp

b) startApp, destroy App

c) startApp, pauseApp, destroyApp

d) initApp,startApp,pauseApp, destroyApp

(lix) After compiling your midlet, you must process it with a command to
ensure that it is valid before use by the Kilo virtual machine (KVM). What is
the name of the command

a) midp

b) javac-bootpath

c) preverify

d) jar

(lx) When downloading application descriptors (.jad files) from a web server,
the web server must return a MIME type of_____.

a) text/vnd.sun.j2me.midp   b) text/vnd.sun.j2me.jad

c) text/vnd.sun.j2me.app-descriptor   d) text/vnd.sun.j2me.midapp