These are sample MCQs to indicate pattern, may or may not appear in examination

University of Mumbai

Online Examination 2020

Program: BE Electronics & Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VIII

Course Code: ECC802 and Course Name: Wireless Networks

Time: 1hour Max. Marks: 50

Note to the students:- All the Questions carry equal marks .

Q	The technology that promises a potentially revolutionary approach to radio communication in WBANs is
A	Infrared
B	Wi-Fi
C	UWB
D	WiMAX
Q	An electrocardiogram (ECG) sensor is for monitoring the activity of
A	Brain
B	Heart
C	Respiration
D	Muscle
Q	An electromyography (EMG) sensor is for monitoring the activity of
A	Brain
B	Muscle
C	Respiration
D	Heart
Q	Usually node communication in WBAN _____is in nature.
A	Duplex
B	Half Duplex
C	Simplex
D	Semi Duplex

Q In _____of WBAN,the information handling between the sensors and the sink takes place.
A on body communication
B intra-body communication
C off body communication
D interbody communication
Q In WBAN------ is used to avoid the transmission to a far node with less power.
A singlehop communication
B wired communication
C direct communication
D Multihop communication

Q In WBAN, due to the network's proximity to the human body, electromagnetic pollution should be _____
A moderate
B high
C extremely low
D extremely high.
Q The sensors that are implanted in the human body of WBAN required a _____
A memoryless devices
B long battery lifetime
C large size battery
D short battery lifetime

Q Auto-inject insulin through a pump as soon as insulin level of diabetic patient declines is an application of
A Wireless Basic Area Network
B Wireless Body Area Network
C Wire Body Area Network
D Wireless Body Active Network

Q In WBAN, compared with inductive coupling,RF communication _____for communication.
A dramatically decreases bandwidth
B dramatically increases bandwidth
C dramatically decreases power consumption

D dramatically increases power consumption

Q Which of the following is not a component of WBAN component

A Power supply

B personal server

C GPS

D Acess points

Q In WBAN, sampling rate of _____ is considered to be sufficient without loosing any information.

A 100–1000 Hz

B 10–100 Hz

C 10–100 KHz

D 1–10 Hz

Q TCP/IP model does not have

A Session layer

B Application layer

C Network layer

D Data link layer

Q Which of the following processes perform on packets and Internetworking by network layer?

A Error detection

B Routing

C encapsulation

D Error correction

_____occurs when the radio path between the transmitter and receiver is obstructed by a surface that has sharp irregularities (edges)

Q

A Deflection

B Reflection

C Diffraction

D Refraction

Packet-switched communication uses _____of information that use channels only for short periods of

Q time.

A short bursts

B small bursts

C long bursts
D large bursts
Q A peer-to-peer network cannot be
A Self-organizing
B Self-healing
C Ad hoc
D Permanent

Q A high-bandwidth wireless technology with transmission speeds in excess of 100 Mbps that can be used for applications such as streaming multimedia from, say, a personal computer to a television
A Infrared
B Ultra-Wideband (UWB)
C Satellite Radio
D Propagation Delay

Q A wireless technology that allows manufacturers to attach tags with antennas and computer chips to goods and then track their movement through radio signals
A Wireless Sensor Networks (WSN)
B Wireless Fidelity (WiFi)
C Near-Field Communication (NFC)
D Radio-Frequency Identification (RFID) Technology

Q ACL stands for
A Asynchronous connected link
B Asynchronous communication Link
C Asynchronous connection link
D Asynchronous connectionless link

Q In a piconet, one master device_____
A can be master in another piconet
B can be slave in the same picone
C can not be slave
D can be slave in another piconet

Q Which of the following topology is not supported by ZigBee
A Mesh
B Ring

C Cluster tree
D Star
Q In star topology, communication is established through a single controller called as _____
A End device
B Co-ordinator
C Supporter
D Mediator
Q Cluster tree network is a special case of _____
A Global Network
B Hub Network
C Peer to Peer network
D Ring Network
Q _____is a protocol that handles publishing and discovery of services running on Bluetooth stack.
A Service Investigate Protocol
B Service Discovery Protocol
C Service Discovery Protocol
D Service Connect Protocol
Q Bluetooth is named after a(n) _____ king.
A Swiss
B English
C Danish
D German
Q In a piconet, there can be up to _____ parked nodes in the network.
A 255
B 127
C 63
D 511
Q What is A2DP (advanced audio distribution profile)?
A a bluetooth profile for streaming audio
B a bluetooth profile for security
C a bluetooth profile for streaming video
D a bluetooth profile for file management
Q A scatternet can have maximum _____

A 40 piconets
B 10 piconets
C 20 piconets
D 30 piconets

Q The device in the piconet whose clock and hopping sequence are used to synchronize all other devices in the piconet is called as_____
A Master unit
B Slave unit
C Parked unit
D Active unit

Q A _____ medium access control address used to distinguish between units participating in the piconet.
A 8-bit
B 4-bit
C 5-bit
D 3-bit

Q Devices in a piconet which are time-synchronized but do not have MAC addresses are called as _____
A Active units
B Master units
C Parked units
D Slave units

Q Which of the following is not a low power state in Bluetooth
A Connected
B Sniff
C Park
D Hold

Q When ZigBee node is powered down, it can wake up and get a packet in around _____-.
A 1.5 msec
B 1.5 sec
C 15 msec
D 15 sec

Q In ZigBee, FFD stands for _____
A Full Feature Device
B First Feature Device

C Full Function Device
D First Function Device
Q In ZigBee, RFD stands for _____
A Restricted Function Device
B Reduced Function Device
C Rectified Function Device
D Reallocated Function Device
Q In which of the following mode FFD cannot be operated
A coordinator
B Slave
C PAN coordinator
D End device
Q In which of the following Zigbee topology,any device can communicate with any other device as long as they are in range of one another.
A HUB
B Peer to Peer
C Star
D Cluster tree
Q UWB stands for _____
A Useful Wide Band
B Unique Wide Band
C Ultra Wide Band
D Uniform Wide Band
Q Which of the following statements about radio frequency identification (RFID) is not true?
A RFID systems provide a powerful technology for tracking the movement of goods throughout the supply chain
B RFID systems use tiny tags with embedded microchips containing data about an item and its location.
C RFID systems transmit radio signals over long distances.
D Companies may be required to upgrade hardware and software to accommodate the massive amounts data that are being produced by RFID systems.
Q RFID stands for _____
A Radio-Frequency Indication
B Radio-Fault Indication
C Radio-Frequency Identification
D Radio-Frequency Interconnection
Q RFID is also called as _____

A dedicated long range communication
B deployed short range communication
C dedicated short range communication.
D detail short range communication
Q Which of the following is not a type of RFID tag?
A Passive
B Partially Passive
C SemiActive
D Active
Q Which of the following technology is a good replacement for the BARCODE system?
A ZigBee
B Infrared
C RFID
D Bluetooth
Q In IEEE 802.11, the addressing mechanism can include up to _____addresses.
A 1
B 2
C 4
D 6
Q The IEEE 802.11b, uses _____.
A FHSS
B DSSS
C OFDM
D either (a) or (b)
Q The original IEEE 802.11, has a data rate of _____Mbps.
A 1
B 2
C 4
D 16
Q IEEE 802.11a, has a data rate of _____Mbps.
A 1
B 2
C 6

D 22
Q IEEE 802.11g, has a data rate of _____Mbps.
A 1
B 2
C 11
D 22
Q The IEEE 802.11a, uses _____
A FHSS
B DSSS
C OFDM
D either (a) or (b)
Q IEEE 802.11b, has a data rate of _____Mbps.
A 1
B 2
C 5.5
D 20
Q _____is an interface between subscribed wired devices and WLL network.
A Mobile subscriber unit
B Fixed subscriber unit
C Wireless Access Network Unit
D Wired Access Network Unit
The wireless local loop sytems are_____
type of broadband wireless
Q networks.
A fixed
B mobile
C semi-mobile
D dynamic
Q IEEE 802.16e standard defines framework for _____
A coexistance with WLAN
B Multihop relay
C Air Interface
D Mobility management

Q Wireless high-speed unlicensed metropolitan access network is a specification targeted for license exempt band below_____

A 11GHz

B 2.4GHz

C 5GHz

D 2GHz

Q Which of the following statement is not True?

A Wireless metropolitan area network is a promising broadband wireless access technology that provides high-speed, high-bandwidth efficiency.

B IEEE 802.15 standard is commonly known as WiMAX.

C The main goal of IEEE 802.16 is to provide high-speed Internet access.

D IEEE 802.16a adds optional support for mesh topology other than point-to multi point

Q To avoid collisions on wireless networks, _____was invented.

A CSMA/CA

B CSMA/CD

C either (a) or (b)

D both (a) and (b)

Q VANETs were first mentioned and introduced in ___

A 2000

B 2001

C 2002

D 2003

Q VANETs are a key part of the_____ systems (ITS) framework.

A intelligent transportation

B information transportation

C intelliactual transportation

D internal transportation

Q VANETs were seen as a mere one-to-one application of ____ principles.

A WARNET

B WANET

C MANET
D WNET
Q VANETs support a _____ of applications
A narrow range
B double range
C single range
D wide range
Q The term VANET became mostly synonymous with the more generic term _____ .
A inter-lock communication
B inter-vehicle communication
C inter- plan communication
D inter-city communication
Q Traffic information systems, which use ___
A WARNET
B WANET
C VANET
D WNET
Q VANET is aslo known as__
A V2V
B V3V
C V4V
D V5V
Q A true MANET by definition requires_____ routing
A multicast
B Unicast
C broadcast
D narrowcast
Q MANETs a popular research topic since___
A 1990
B 1940
C 1960
D 1920
Q A mobile ad hoc network (MANET) sometimes known as

A "off-the-fly"
B "on-top-fly"
C "on-the-fly"
D "on-to-fly"
Q iMANETs stands for
A Internet-based mobile ad hoc networks
B International mobile ad hoc networks
C Internal mobile ad hoc networks
D Interchange mobile ad hoc networks
Q iMANETs supports
A only TCP
B Only UDP
C only IP
D TCP/UDP and IP
Q VANETs are used for communication between ____
A planes
B vehicles and roadside equipment
C trains
D ships
Q InVANETs stands for
A Internal vehicular ad hoc networks
B Intelligent vehicular ad hoc networks
C International vehicular ad hoc networks
D Intellitual vehicular ad hoc networks
Q A mobile ad hoc network (MANET) sometimes known as
A spontaneous networks
B stimulated networks
C jumbo networks
D simultaneous networks
Q In _____ methods, a station cannot send unless it has been authorized by other stations.
A random access
B controlled access
C channelization

D Mobilization
Q IEEE 802.11 have three categories of
A frames
B field
C signals
D sequences
Q _____ allows us to control electronic component
A RETful API
B RESTful API
C HTTP
D MQTT
Q MQTT stands for _____
A MQ Telemetry Transport
B MQ Transport Things
C MQ Transport Telemetry
D MQ Telemetry Things
Q MQTT is _____ protocol.
A Machine to Machine
B Internet of Things
C Machine to Machine and Internet of Things
D Machine Things
Q The number of elements in the Open IoT Architecture?
A 7 elements
B 3 elements
C 9 elements
D 5 elements
Q The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called?
A Machine to Machine
B Intercloud
C Bot 2 Bot
D Skynet

Q Internet of Things needs a lot of network connection. What is the proposed “white Space” radio standard called?
A Weightless
B Bluetooth
C WiMax
D Zigbee
Q What is the sensor/protocol used in GSN?
A CoAP protocol
B HTTP protocol
C MQTT protocol
D XMPP protocol
Q Open IoT manages the registration, data acquisition, deployment of sensors and interconnected of objects, through which network?
A GSN
B XGSN
C LSM
D HTTP
Q Which environment does Global Sensor Network work on?
A JAVA
B C
C C++
D HTML
Q _____ is a community that is working together to establish an IoT architecture.
A Eclipse IoT
B Red Hat
C Intercloud
D Bot 2 Bot
Q _____ provides a middleware and application container for IoT gateway.
A Eclipse Kura
B Red Hat
C Intercloud
D Bot 2 Bot
Q Global Sensor Network is built for _____

A Reducing cost and time for development
B Reducing cost and increasing time for development
C Increasing cost and increasing time for development
D Increasing cost and decreasing time for development
Q Which is the core wrapper of GSN?
A ZeroMQWrapper
B UDP
C GPSTest
D serial
Q MWSN stands for
A Moving WSN
B Mobile WSN
C Moderate WSN
D Mid WSN
Q Hardware address is known as _____
A MAC address
B IP Address
C Network Interface Card
D Address Resolution Protocol
Q MAC stands for _____
A Media Area Control
B Memory Access Control
C Memory Area Control
D Media Access Control
Q What translates IP address into MAC address?
A Organizationally Unique Identifier
B Address Resolution Protocol
C Network Interface Card
D Burned In Address