

Program: BE Electronics & Telecommunication Engineering

Curriculum Scheme: Revised 2012

Examination: Fourth Year Semester VIII

Course Code: ETC801 and Course Name: Wireless Networks

Time: 1hour

Max. Marks: 50

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

Q1.	Mobiles engaged in a call/transmitting data to the network are considered to be in ____.
Option A:	Ideal mode
Option B:	Dedicated mode
Option C:	Standby mode
Option D:	Parked mode
Q2.	Which of the following is not a GSM handover?
Option A:	Intra-BSC Handovers
Option B:	Inter-MSC Handovers
Option C:	Inter-BSC Handovers
Option D:	Intra-MSC Handovers
Q3.	Which of these is a variant of spread spectrum techniques
Option A:	Frequency Hopping Spread Spectrum
Option B:	Phase Hopping Spread Spectrum
Option C:	Amplitude Hopping Spread Spectrum
Option D:	None of the above
Q4.	The minimum received signal power to satisfy a certain bit error rate (BER) needs to be calculated. This is referred to as _____.
Option A:	Sensitivity
Option B:	Scalability

Option C:	receiver sensitivity
Option D:	efficiency
Q5.	In wireless communication, which of these is not used
Option A:	CSMA/CA
Option B:	TDMA
Option C:	FDMA
Option D:	CSMA/CD
Q6.	The Zigbee is a commercial standard developing the application on top of which of the following standards that define the PHY and the MAC layers
Option A:	IEEE 802.15.4
Option B:	IEEE 802.11
Option C:	IEEE 802.16
Option D:	IEEE 802.3
Q7.	VANETs are key components for implementation of
Option A:	Military and battlefield operation
Option B:	Disaster relief operation
Option C:	Intelligent vehicle system
Option D:	Localised advertising
Q8.	_____ in communicating devices are responsible for negotiating the properties of Bluetooth air interface between them
Option A:	Logical link control & adaption protocol layer
Option B:	Link manager layer
Option C:	Base band & radio layer
Option D:	Host controller interface layer

Q9.	Which RF communication standard used to form adhoc PAN with 10meter range.
Option A:	IR
Option B:	RFID
Option C:	Zigbee
Option D:	Bluetooth
Q10.	A _____ involves several computing and peripheral devices that are able to communicate to form a single adhoc system
Option A:	WPAN
Option B:	WLAN
Option C:	WiFi
Option D:	RFID
Q11.	_____ allows devices to locate, connect, and exchange data with each other and to execute interoperable, interactive applications against each other.
Option A:	RFID
Option B:	UWB
Option C:	Zigbee
Option D:	The Bluetooth protocol stack
Q12.	In authorization of Bluetooth following device trust level is not in existence:
Option A:	Trusted device
Option B:	Untrusted device
Option C:	Known device
Option D:	An unknown device
Q13.	The architecture of WPAN consists of
Option A:	One master and one slave device
Option B:	Only slave devices
Option C:	One master and number of slaves

Option D:	Only master devices
Q14.	Following error correction scheme is not defined for the Bluetooth baseband controller
Option A:	Automatic repeat request (ARQ) scheme for data
Option B:	1/3 rate forward error correction (FEC) code
Option C:	2/3 rate forward error correction code
Option D:	Stop & wait scheme for data
Q15.	Which of the following is not a characteristics of Zigbee network.
Option A:	Low power consumption
Option B:	Easy installation
Option C:	High data rates
Option D:	Unlicensed radio bands.
Q16.	A system employing TDMA transmits data at the rate of 135.417 kbps. Compute the time duration of each bit.
Option A:	3.692 microsec
Option B:	7.384 microsec
Option C:	36.92 microsec
Option D:	73.84 microsec
Q17.	Which layer in WSN architecture is responsible for traffic management & converting data into appropriate form required for processing it further.
Option A:	Transport Layer
Option B:	Application Layer
Option C:	Network Layer
Option D:	Data Link Layer
Q18.	Which of the following statements about radio frequency identification(RFID) is not true.
Option A:	RFID systems transmit radio signals over long distances

Option B:	RFID systems use tiny tags
Option C:	Companies may be required to upgrade hardware and software to accommodate the massive amounts data that has been produced by RFID systems.
Option D:	RFID systems provide a powerful technology for tracking the movement of goods throughout the supply chain
Q19.	In wireless ad-hoc network _____
Option A:	access point is must
Option B:	nodes are not required
Option C:	all nodes are access points
Option D:	access point is not required
Q20.	IEEE 802.15.3 standard has been proposed for
Option A:	Low-rate WPAN
Option B:	Mesh-based WPAN
Option C:	High-rate WPAN
Option D:	Low rate & High rate WPAN
Q21.	Category 1 WSNs is based on
Option A:	Star based systems
Option B:	Mesh based systems
Option C:	Switched based systems
Option D:	Packet switched based systems
Q22.	The monitoring of machines, gears and objects are achieved by which sensor?
Option A:	Humidity sensor
Option B:	Proximity sensor
Option C:	Touch sensor
Option D:	Pressure sensor
Q23.	A phenomenon that occurs when the medium through which the wave travels consist of objects with dimensions that are small compared to the wavelength.

Option A:	Diffraction
Option B:	Reflection
Option C:	Scattering
Option D:	Inclination
Q24.	Which one of these is not a data link layer technology
Option A:	Bluetooth
Option B:	UART
Option C:	HTTP
Option D:	Wifi
Q25.	Which topology allows transmission of data from one node to another, which is within its radio transmission range.
Option A:	Mesh
Option B:	Star
Option C:	Network
Option D:	Tree