

## **Department of Electronics and Communication Engineering**

## **EC8004 WIRELESS NETWORKS**

## **Multiple Choice Questions Bank**

## **Unit-I Wireless LAN**

- 1. Which of the following is not correct with respect to WLAN?
  - a) Very flexible within the reception area
  - b) Ad-hoc networks without previous planning possible
  - c) Very high bandwidth compared to wired networks
  - d) No wiring difficulties

Answer: (c)

- 2. Choose the design goals for wireless LANs
  - a) Global, seamless operation
  - b) Low power for battery use
  - c) No special permissions or licenses needed to use the LAN
  - d) All the above

Answer: (d)

- 3. Which of the following IEEE 802.11 system architecture requires a wired backhaul?
  - a) Infrastructure network
  - b) Adhoc Network
  - c) All the above
  - d) None of the above

Answer: (a)

- **4.** What is the main role of physical layer in IEEE 802.11?
  - a) Modulation
  - b) Flow control
  - c) Routing
  - d) Scheduling

Answer: (a)

- **5.** Routing falls under which layer?
  - a) MAC
  - b) Network
  - c) PHY layer
  - d) Session layer

Answer: (b)

- **6.** Pick the correct modulation scheme for FHSS.
  - a) GFSK modulation
  - b) DBPSK modulation
  - c) DOPSK modulation
  - d) None of the above

Answer: (a)

- 7. Check the correct modulation schemes for DSSS.
  - a) GFSK modulation
  - b) DBPSK modulation
  - c) GMSK modulation
  - d) None of the above

Answer: (b)

- 8. PLCP header fields in FHSS PHY packet format comprises of
  - a) PLW
  - b) PSF
  - c) HEC
  - d) All the above

Answer: (d)

- 9. PLCP header fields in DSSS PHY packet format comprises of
  - a) Signal
  - b) Service
  - c) Length
  - d) All the above

Answer: (d)

- 10. Which of the following MAC schemes in IEEE 802.11 avoids hidden terminal problem?
  - a) DFWMAC-DCF CSMA/CA
  - b) DFWMAC-DCF RTS/CTS
  - c) DFWMAC-PCF
  - d) All the above

Answer: (b)

<b>11.</b> Choo	se the IFS with highest Priority.
a	SIFS
b	PIFS
c)	DIFS
d	All the above
A	nswer: (a)
12 Trans	smitter and Receiver addresses are present in
	ACK packet
	RTS packet
	CTS packet
d	•
	nswer: (c)
<b>13.</b> WLA	N: IEEE 802.11a and WLAN: IEEE 802.11b operate with the transmission
	encies and respectively.
a	5 GHz and 2.4 GHz
b	2.4 GHz and 5 GHz
A	nswer: (a)
<b>14.</b> Maxi	mum data rate of WLAN: IEEE 802.11a and WLAN: IEEE 802.11b are
	andrespectively.
a)	6 Mbps and 54 Mbps
	54 Mbps and 6 Mbps
A	nswer: (b)
	ider an OFDM system that uses 52 sub-carriers out of which 48 are data sub-carriers
	are pilot sub-carriers. System bandwidth is 20 MHz and OFDM symbol
	tion including cyclic prefix is 4 micro seconds. If code rate is 3/4 and 64 QAM is used, is the data rate?
wiiai a	is the data rate?  54 Mbps
b	
c)	
	48 Mbps
	nswer: (a)
16.	Offers connection-oriented service.
a	
b	
c	
ď	
A	nswer: (a)

- **17.** Which of the following is not true regarding HiperLAN2?
  - a) Connection oriented
  - b) QoS support
  - c) Dynamic frequency selection
  - d) Network and application dependent

Answer: (d)

- **18.** Which of the following is not a characteristic of Bluetooth?
  - a) 2.4 GHz ISM band
  - b) G-MSK modulation
  - c) FHSS and TDD
  - d) Topology-scatternet

Answer: (b)

- 19. Active Member Address (AMA) and Parked Member Address (PMA) are and bits respectively.
  - a) 3 bits and 8 bits
  - b) 8 bits and 3 bits

Answer: (a)

- **20.** Check the correct statement regarding Base band link types.
  - a) SCO (Synchronous Connection Oriented) Voice
  - b) ACL (Asynchronous ConnectionLess) Voice
  - c) SCO (Synchronous Connection Oriented) Data
  - d) None of the above

Answer: (a)

- **21.** WiMAX provides you?
  - a) Full duplex communication
  - b) Half duplex communication
  - c) Simplex communication
  - d) duplex communication

Answer: (a)

- 22. ETSI stands for
  - a) European Telephone Standards Institute
  - b) European Telecommunication Systems Institute
  - c) European Telecom Standards Institute
  - d) European Telecommunication Standards Institute

Answer: (d)

- 23. Which topologies supported by zigbee?
  - a) Star
  - b) Peer to peer
  - c) Cluster
  - d) All the above

Answer: (d)

- **24.** What is the data rate of Wireless HART Protocol?
  - a) 250 kbps
  - b) 1 mbps
  - c) 5 mbps
  - d) 1 kbps

Answer: (a)

- **25.** Which are the applications of WUSB?
  - a) Home and office
  - b) MP3
  - c) Adhoc LoWPAN
  - d) Both a & b

Answer: (d)

