COEN 331 Summer 2021 Midterm Test

Due Jul 12 at 6:45pm   **Points** 35   **Questions** 35

Available Jul 12 at 6:20pm - Jul 12 at 6:45pm 25 minutes   **Time Limit** 25 Minutes

Allowed Attempts Unlimited

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Take the Quiz Again

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Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	25 minutes	22 out of 35

⚠ Correct answers will be available Jul 12 at 6:50pm - Jul 12 at 7pm.

Score for this attempt: **22** out of 35

Submitted Jul 12 at 6:44pm

This attempt took 25 minutes.

Question 1   1 / 1 pts

1- In wireless communications the polarization is the direction of the electric field.

- ⦿ True

- ○ False

Question 2   1 / 1 pts

2- In Forward Error Correction source will add additional redundant parity bits to transmitted blocks and the clock that destination can recover the error.

**The received block bit errors could be corrected by using the
clock bits.**

○ True

◉ False

Question 3   1 / 1 pts

**3- In 802.11 frame header the "address 2" is destination address of
frame.**

○ True

◉ False

Question 4   1 / 1 pts

**4- Light transmission using Free Space Optics, that will transmit
the information by using the laser for RX and the photo diodes for
TX.**

○ True

◉ False

Question 5   1 / 1 pts

**5- In Low Frequency transmission the Ionosphere is the charged
layer about 500 Km above earth will absorb the signal which
prevents the reachability of signal.**

○ True

◉ False

Question 6   1 / 1 pts

6- In IEEE 802.11 Channel list is the list of channels could be used to listen to the beacon.

◉ True

○ False

Question 7   1 / 1 pts

7- In BSS (Basic Service Set) topology by using PIFS (Point Coordination Function Inter-Frame Space) the transmitting device can transmit after PIFS and preempts contention-base transmission.

◉ True

○ False

Question 8   1 / 1 pts

8- PLCP (Physical Layer Convergence Procedure) maps MAC frames into the media.

◉ True

  ○ False

Question 9   1 / 1 pts

9- OFDM encodes a single large frequency transmission channel into sub-carriers, data is multiplexed over sub-carriers.

  ● True

  ○ False

Question 10   1 / 1 pts

10- In IBSS (Independent Basic Service Set) topology after DIFS (Distributed Inter-Frame Space) contention-based transmission starts and each station can access medium.

  ● True

  ○ False

Question 11   1 / 1 pts

11-In IEEE 802.11 the IFFT (Inverse Fast Fourier Transform) is used to create composite waveform to transmit

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  ● True

  ○ False

Question 12

1 / 1 pts

12- The management sub-messages in IEEE 802.11 which are used to setup the NAV (Network Allocation Vector) are RTS, CTS, and the ACK.

◉ True

○ False

Incorrect

Question 13

0 / 1 pts

13- In IBSS (Independent Basic Service Set) Power Conservation Unicast mode, only Frames received by client device are acknowledged.

◉ True

○ False

Incorrect

Question 14

0 / 1 pts

14- NAV (Network Allocation Vector) announces the contention-based period to clients, in this time period all devices are permitted to access the medium.

◉ True

○ False

Incorrect

Question 15

0 / 1 pts

15- IEEE 802.11 device sends Power Save-Poll message after power saving wakeup mode to Access Point to acknowledge receive of buffered frames.

◉ True

○ False

Incorrect

Question 16

0 / 1 pts

16- In DCF (Distributed Coordination Function) method it is required Beacons are ACKed (Acknowledged) by receiver.

◉ True

○ False

Question 17

1 / 1 pts

17- The retry bit is set for re-transmitted frame in order destination device to verify the duplicated frames and discard those.

◉ True

○ False

Question 18

1 / 1 pts

18- In IBSS (Independent Basic Service Set) Power Conservation mode Unicast ATIM (Announcement Traffic Indication Messages) frame is not acknowledged.

○ True

◉ False

Incorrect

Question 19   0 / 1 pts

19- BSSType (BaSic Service Type) field defines the network type as WiFi or cellular network.

◉ True

○ False

Incorrect

Question 20   0 / 1 pts

20- TIM (Traffic Indication MAP) is sent periodically in RTS (Request to send) and CTS (Clear to send).

◉ True

○ False

Question 21   1 / 1 pts

21-More bit is set to one to indicate more frames are discarded when interference is at the physical layer detected.

○ True

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◉ False

Question 22   1 / 1 pts

22-Duration NAV value is set based on the value in RTS header.

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◉ True

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○ False

Question 23   1 / 1 pts

23- IEEE 802.11i provides security for WLAN, the RSN (Robust Security Network) negotiates authentication and encryption between user and AP(Access Point).

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◉ True

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○ False

Question 24   1 / 1 pts

24-IEEE 802.11e standard provides the QoS for WLANs (Wireless LANs) using EDCF (Enhanced Distribution Coordination Function) to provide prioritization to multiple traffic types.

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◉ True

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○ False

Question 25

1 / 1 pts

25- IEEE 802.15.4 ZigBee alliance supports time synchronization and guaranteed time slot (GTS) for access to the network.

◉ True

○ False

Incorrect

Question 26

0 / 1 pts

26- In 802.11 for active scanning station sends RTS frames and waits for CTS response.

◉ True

○ False

Incorrect

Question 27

0 / 1 pts

27-IEEE 802.11 is using CSMA/CD (Collision Sense Media Access with Collision Detection) for MAC layer.

◉ True

○ False

Question 28

1 / 1 pts

28- In IEEE 802.11k the AP (Access point) determines the client is moving away from AP then AP will inform the client to prepare to move to another AP.

◉ True

○ False

Incorrect

Question 29   0 / 1 pts

29- In IEEE 802.11 probe request is used by mobile station to identify networks.

○ True

◉ False

Incorrect

Question 30   0 / 1 pts

30- In OFDM to prevent channels overlap with the neighboring channel, we use guard band.

◉ True

○ False

Question 31   1 / 1 pts

31- IEEE 802.11n physical layer will use MIMO (Multi Input, Multi Output) technology for more than 100 Mbps for single channel

performance

○ True

○ False

Question 32   **1 / 1 pts**

32- In 802.11 Contention Free Service with PCF (Point Coordination Function),

if no response is received from polled station after elapse of PIFS time, the access point immediately will poll the same station again.

○ True

◉ False

Incorrect

Question 33   **0 / 1 pts**

33- In the ZigBee networks routing is based on the TCP/IP protocol, using Ad hoc on demand Distance Vector algorithm OSPF (Open Short Path First).

◉ True

○ False

Incorrect

Question 34   **0 / 1 pts**

34- Dipole Antenna (Half Dipole or Hertz Antenna) has half-length of wave length, consists of two straight conductors with equal

lengths.

Maximum propagation (main lobe) is in vertical direction (90 degrees) to the ground.

◉ True

○ False

Incorrect

Question 35

0 / 1 pts

35- In the modulation process the modulator will vary properties of Carrier signal with a signal that has the information and to be transported. The properties of carrier signal are phase, amplitude, frequency, antenna power, and terrestrial distance.

◉ True

○ False

Quiz Score: **22** out of 35