OEN 331 Spring 2021 Midterm Test Results for Susmith Barigidad

⚠ Correct answers will be available May 3 at 6:55pm - May 3 at 7:05pm.

Score for this quiz: **27** out of 35
Submitted May 3 at 6:50pm
This attempt took 19 minutes.

Incorrect

Question 1	0 / 1 pts

1- In OFDM (Orthogonal Frequency Division Multiplexing) to prevent channels overlap with the neighboring channel, we use guard band.

⦿ True

◯ False

Question 2	1 / 1 pts

2- In IEEE 802.11 the IFFT (Inverse Fast Fourier Transform) is used to create a one single waveform to transmit.

◯ True

⦿ False

Question 3	1 / 1 pts

3- OFDM (Orthogonal Frequency Division Multiplexing) encodes a single large frequency transmission channel into one single carrier for better bandwidth utilization.

○ True

◉ False

Unanswered | **Question 4** | 0 / 1 pts

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

○ True

○ False

Incorrect | **Question 5** | 0 / 1 pts

5- In IBSS (Independent Basic Service Set) Power Conservation mode for Unicast all user's data frames should be acknowledged by receiver.

◉ True

○ False

Question 6

1 / 1 pts

6- IEEE 802.11i provides security for WLAN, the RSN (Robust Security Network) negotiates authentication and encryption between two mobile users.

○ True

◉ False

Question 7

1 / 1 pts

7-Multi-path fading is the case when some signals arrive with different amplitudes and hit the main signal at the receiver, main signal will fade, solution will be to switch to different amplitude of the same signal.

○ True

◉ False

Incorrect

Question 8

0 / 1 pts

8- IEEE 802.15.4 ZigBee supports OFDM (Orthogonal Frequency Division Multiplexing) and contention-based access to connect nodes to the network.

◉ True

○ False

Question 9

1 / 1 pts

9- For wireless communications, the circular polarization uses the constant electric field vector, the direction of electric field is not changed and rotates around 90 degrees of propagation direction.

○ True

◉ False

Question 10

1 / 1 pts

10- Antenna Lobes will provide the directions, where the radiated signal strength reaches a maximum, separated by "Null" angle at which the radiation falls to zero.

◉ True

○ False

Question 11

1 / 1 pts

11- Signal power time variation is caused by atmospheric conditions or mobile device

movement facing objects in transmission path, this is the fading in wireless communications.

◉ True

○ False

Question 12
1 / 1 pts

12- The small-scale fading is when the mobile user covers distances one half of the wavelength. The variation of received signal amplitude over short distance.

◉ True

○ False

Question 13
1 / 1 pts

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

○ True

◉ False

Incorrect

Question 14
0 / 1 pts

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

○ True

○ False

Question 15   1 / 1 pts

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

◉ True

○ False

Incorrect

Question 16   0 / 1 pts

16- In IEEE 802.11 the power conservation unicast mode access point should decide the frame should be delivered if AP (Access Point) is active else should buffer the frame.

○ True

◉ False

Question 17   1 / 1 pts

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

○ True

○ False

Incorrect

Question 18   0 / 1 pts

18- In IEEE 802.11 the mobile device sends Power Save-Poll message after power saving wake up mode to notify the Access Point for receive of buffered frames

○ True

◉ False

Question 19   1 / 1 pts

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

○ True

◉ False

Question 20   1 / 1 pts

20- Retry bit is set for re-transmitted frame in order destination device to verify duplicated frames and discard those.

◉ True

○ False

Question 21   1 / 1 pts

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

○ True

◉ False

Question 22   1 / 1 pts

22- TIM (Traffic Indication MAP) is sent periodically in the Beacon.

◉ True

○ False

Question 23   1 / 1 pts

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

○ True

◉ False

Question 24

1 / 1 pts

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

◉ True

○ False

Question 25

1 / 1 pts

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

◉ True

○ False

Question 26

1 / 1 pts

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

○ True

◉ False

Question 27

1 / 1 pts

27- 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

Question 28

1 / 1 pts

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

◉ True

○ False

Question 29

1 / 1 pts

29- 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 30

1 / 1 pts

30- 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 31

0 / 1 pts

31- In Bluetooth, there is always a physical link between the master and each slave, and physical links between two slaves.

◉ True

○ False

Question 32

1 / 1 pts

32- Modulation process will add information to a carrier signal.

The modulator will vary properties of Carrier signal with a signal that has the information and to be transported.

◉ True

○ False

Question 33   1 / 1 pts

33-In Bluetooth, the Piconets could be connected with each other over the router devices.

○ True

◉ False

Question 34   1 / 1 pts

34- In Bluetooth, TDM is used, the even slots are used for master, the odd numbers for slaves.

◉ True

○ False

Question 35   1 / 1 pts

35- In Bluetooth, physical link channel type ALC (Asynchronous Connectionless) is used for better performance, the time slots are reserved by master for each slave.

○ True

◉ False

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