Chapter 7

|  |  |
| --- | --- |
| Q1 |  |
| * Pick the most accurate statement. * Bad regulations or bad implementation approaches may result   A. Artificial barriers to technology B. Lower quality of service C. Unequal distribution of access and services D. All the statements are correct  D. All the statements are correct  page8image47247552page8image36763904page8image47247136 | |
|  | |

|  |  |
| --- | --- |
| Q2 |  |
| • Pick the most accurate statement Title 47 CFR Part 15 Subpart C, D, and E Consists of: A.Laws pertaining to monopoly and antitrust B.Laws authorizing and empowering states and county commissioners C.Laws pertaining to unlicensed low power transmitters D.Laws pertaining to licensing requirements for telecommunication personnel  C. Laws pertaining to unlicensed low power transmitters  page8image65521632 | |
|  | |

|  |  |
| --- | --- |
| Q3 |  |
| * Pick the most accurate statement * ANSI C63.4–2003 Standards relate to the methods of measurement:   1. Of hopping frequency for low range RFID transmitters, such as car key fobs   2. Of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz   3. Of measurement of Effective Isotropic Radiated Power for antenna gain limited to 6dBi   4. None of the statements in correct   page8image65529920page8image37052288  B. Of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | |
|  | |

8

|  |  |
| --- | --- |
| Q4 |  |
| * Pick the most accurate statement * According to FCC CFR Title 47 Part 15, RF Exposure, controlled   environment means:  A. People are aware of potential hazards B. Reduced distractions so the people can provide their best performance C. Controlled pressure and temperature for optimum equipment performance D. A condition that does not involve exposure to the treatment or intervention  A. People are aware of potential hazards  page9image65413552 | |
|  | |

|  |  |
| --- | --- |
| Q5 |  |
| * Pick the most accurate statement * FCC designated 3 bands for UNNI in 1997. UNNI stands for?   A. Universal Networking Information Infrastructure B. Unlicensed National Information Infrastructure C. University News Network Infrastructure D. Unallocated National Number Interface  B. Unlicensed National Information Infrastructure  page9image65416800 | |
|  | |

Chapter 8

|  |  |
| --- | --- |
| Q1 |  |
| * Pick the most accurate statement. * Electromagnetic Spectrum consists of   A. X-Rays and Gama Rays B. Microwaves and Radio Waves, the sweet spot for data communications C. Infrared Waves and Ultraviolet Waves D. All the statements are correct  D. All the statements are correct  page12image47683056page12image36954560page12image47683264 | |
|  | |

|  |  |
| --- | --- |
| Q2 |  |
| • Pick the most accurate statement Microwave frequency range is suitable for A.Night Vision Security Cameras that detect heat B.Point-to-point transmission/communication C.Stimulating the production of vitamin D in human body D.Optical fiber communication  B. Point-to-point transmission/communication  page12image65693984 | |
|  | |

|  |  |
| --- | --- |
| Q3 |  |
| • Pick the most accurate statement   1. Wireless LANs systems operate in ELF (Extremely Low Frequency, e.g. 300   Hz) considering human safety   1. One of the limitations of Wireless LANS systems is that they can operate in licensed band only 2. Wireless LANs use frequencies in UHF to SHF spectrum (between 2GHz to 30GHz) 3. One of the limitations of Wireless LANS systems is that they require ionosphere antennas to avoid weather dependent fading   C. Wireless LANs use frequencies in UHF to SHF spectrum  page12image65685920 | |
|  | |

|  |  |
| --- | --- |
| Q4 |  |
| • Pick the most accurate statement One of the goals of Spectrum Policy Reform is: A.Reform interference and penalize the interferers B.Reform underused spectrum to enable new business models C.Minimize the revenue made through bidding as it is tax payer’s money D.None of the statement is correct  B. Reform underused spectrum to enable new business models  page12image65695664 | |
|  | |

12

|  |  |
| --- | --- |
| Q5 |  |
| * Pick the most accurate statement * FCC oversees spectrum allocation for:   A. Commercial usage only (such as public radio, mobile communication, etc.) B. For government usage (such as defense, aviation, etc.) C. Making money to meet FCC’s operations cost, and profit for government D. Both A and B are correct  NTIA oversees spectrum allocation for government usage  page13image47593280page13image37444544page13image47593904  A. Commercial usage only (such as public radio, mobile communication, | |
|  | |

Chapter 9

|  |  |
| --- | --- |
| Q1 |  |
| • Pick the most accurate statement. IN Frequency Modulation, Modulation Index is the: A.Ratio of Phase Modulation and Frequency Modulation B.Ratio of Analog Modulation and Digital Modulation C.Ratio of the frequency deviation to the modulating frequency D. None of above  C. Ratio of the frequency deviation to the modulating frequency  page12image65023360 | |
|  | |

|  |  |
| --- | --- |
| Q2 |  |
| • Pick the most accurate statement In Amplitude Modulation:   1. Message frequency is changed based on CARRIER amplitude 2. Amplitude of a CARRIER is changed 3. Amplitude of modulating, modulated and CARRIER signals all are changed 4. All of above   B. Amplitude of a CARRIER is changed  page12image65032128 | |
|  | |

12

|  |  |
| --- | --- |
| Q3 |  |
| • Pick the most accurate statement about FCC wireline regulations:   1. FCC has radiation safety requirements for wireline service operations 2. FCC does not have radiation safety requirements for wireline, but for wireless service operations 3. FCC regulates the rates or tariff for wireless and wireline services 4. All the statements are correct   A. FCC has radiation safety requirements for wireline service operations  page13image64287760 | |
|  | |

|  |  |
| --- | --- |
| Q4 |  |
| • Pick the most accurate statement DSL is a technology that:  A.Transmits the digitized voice only over a telephone line, and is not capable of sending data because lines do not have filters to separate voice from data  B.Is not similar to ISDN, as DSL operates over existing copper telephone lines and ISDN over optical fiber.  C.Transmits voice and digital data over the same telephone line, however, it uses higher frequency bands for data, and lower frequency bands for voice  D.None of the statement is correct  page13image36970752page13image47229296  C. Transmits voice and digital data over the same telephone line, however, it uses higher frequency bands for data, and lower for voice | |
|  | |

page13image47231584

Q5

• Pick the most accurate statement Modem (Modulation-Demodulation)

A.MODULATES digital signal into analog signal for transmission over analog medium, and then DEMODULATES the signal into digital for receiving

B.MODULATES analog signal into digital signal for transmission over digital medium, and then DEMODULATES the signal into analog for receiving

C.MODULATES digital signal into analog signal for receiving DEMODULATES the signal into digital for transmition

D.None of the statememts is correct

page13image36973440

A

A. MODULATES digital signal into analog signal for transmission over analog medium, and then DEMODULATES the signal into digital for

receiving

Chapter 14 Cybersecurity

|  |  |
| --- | --- |
| Q1 |  |
| • •  Select the best statement Cost of developing cyber weapons  A. Is almost equal to the cost of developing traditional war weapons B. Is almost negligible compared to the cost of developing traditional war weapons C. Is much higher than the cost of a stealth Bomber D. Is confidential and must not be discussed in public  Group-A  page13image47223472page13image66147472page13image37524160  B. Is almost negligible compared to the cost of developing traditional war weapons | |
|  | |

|  |  |
| --- | --- |
| Q2 |  |
| •  Pick the most accurate statement:  Cost of Damage from a Cyberattack?   1. Is negligible and most of the times it is not even noticeable. 2. May include loss of IP Packets, loss of laptops, or loss of grades in school 3. May include loss of reputation, customer trust, human lives and may be even worse compared to the financial loss 4. Is reasonable and big companies normally do not care about this loss   Group-B  page13image47227216page13image66149712page13image37523008  C. May include loss of reputation, customer trust, human lives and it might have worse impact  compared to the financial loss | |
|  | |

|  |  |
| --- | --- |
| Q3 |  |
| • Anomaly means: A. Encrypting the simple information into complicated cipher text B. Listening to confidential conversation C. Launching a Cyber attack by hiring an external hacker D. Deviating from what is standard, normal, or expected trend  Group-A  page13image47232624page13image66151616page13image37525696  D. Something that deviates from what is standard, normal, or expected | |
|  | |

|  |  |
| --- | --- |
| Q4 |  |
| * Pick the most correct statement * Signature Based Intrusion Detection means   A. Detection of attacks by looking for specific patterns B. Detection of forged signature on a school degree or transcript C. Getting signature from the department head by deceiving him D. Detection of an attack by using surveillance cameras  Group-B A. Detection of attacks by looking for specific patterns  page13image47266848page13image66153632 | |
|  | |

13

|  |  |
| --- | --- |
| Q5 |  |
| • •  Pick the best statement DPI in terms of cybersecurity stands for  A. Deep Packet Inspection B. Defensive Path Indication C. Deep Pocket Investment to launch a cyberattack D. Discomfort, Pain and Injury due to cyberattack  A. Deep Packet Inspection  page14image47620224  Group-A  page14image47627296page14image37338112page14image47480256 | |
|  | |

|  |  |
| --- | --- |
| Q6 |  |
| •  When an attack happens, it raises several questions such as   1. What information was taken, and who took it, When and how 2. Weather we should inform FBI, or should we keep quite 3. Weather we should keep using electronic gadgets, or switch back to non digital age and quit using computers 4. None of the above   Group-B  page14image47507824page14image66471008page14image37301888  A. What information was taken, and who took it, When and how | |
|  | |