1. **State one advantage of wireless LANs over wired LANs.**

Wireless LANs primarily supplement wired LANs

Wireless LANs extend the reach of wired LANs

Mobile portable convenience

Connectivity convenience

1. **In 802.11 ad-hoc mode, mobile devices communicate with each other in the following manner:**

|  |  |
| --- | --- |
| directly | via an access point |

1. **In an Extended Service Set (ESS), the group of BSS’s are connected to:**

|  |  |
| --- | --- |
| the same network | different networks |

1. **In CSMA/CA, if a frame is not acknowledged, it is:**

|  |  |
| --- | --- |
| skipped | retransmitted |

1. **State one security issue with Near Field Communications.**

Eavesdroppers reading information, data modification and jamming dns attacks

1. **Which one of the following security standards is the least secure:**

|  |  |  |
| --- | --- | --- |
| WPA | WPA2 | 802.11i |

1. **In organizations, typically, the following 802.11i mode of operation is used:**

|  |  |
| --- | --- |
| 802.1X | Pre-Shared Key (PSK) |

1. **A router typically operates at which of the following network layers:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Physical | Data link | Internet | Transport | Application |

1. **In CSMA/CA, if there has been no traffic sensed for more than the critical value of time, the sender sends the frame:**

|  |  |
| --- | --- |
| after waiting for a random amount of time | immediately |

1. **Co-channel interference is more of an issue with which of the following Wi-Fi bands?**

|  |  |
| --- | --- |
| 2.4 GHz | 1. GHz |

1. **Which of the following security standards is the least secure?**

|  |  |  |
| --- | --- | --- |
| WEP | WPA | 802.11i |

1. **In an Extended Service Set (ESS), the group of BSS's have:**

|  |  |
| --- | --- |
| the same SSID | different SSID's |

1. **Briefly describe a situation where you might use wireless instead of wired LANs:**

Hotspots in restaurants, hotels, airports, etc.

Mobile users in organizations - eg, ANU.

To connect LANs in nearby buildings.

As a backup link to a wired LAN.

To extend a wired LAN, where laying a cable is not possible or practical.

1. **Name one possible application of Near Field Communications.**

Pay bus fares - eg, MyWay.

Open car doors, turn on ignition

RFID tags

Share business cards

Share webpages between mobile devices

Payments using a mobile phone

1. **In homes, typically, the following 802.11i mode of operation is used:**

|  |  |
| --- | --- |
| 802.1X | Pre-Shared Key (PSK) |

1. **Which four pieces of information uniquely identify a TCP connection?**

Source port number

Source IP address

Destination port number

Destination IP address