**Question 1:**

Student Name :

ID :

**Choose which sentence is correct and which is wrong using (√) or (x):**

1. Protocol is set of rules that governs data communications ( ).
2. Token pass protocol used in networks with mainframe Or one central station control the network ( ).
3. Contention protocol advantages is transmission on demand ( ).
4. (100 Base FX) FX is the Fiber Optics ( ).
5. 802.3 standards name contain 2 part ( ).
6. The number of time slots is called a frame. ( )
7. Polling protocol used usually with two topology. ( )
8. CSMA\CA used mostly and better for wireless networks. ( )
9. If a token doesn't work , network will stop ( )

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**Question 2:**

**Choose the correct answer:**

1. **Primary device asks (polls) all secondary devices in one polling cycle :**

|  |  |
| --- | --- |
| **a. Hub-polling** | **b.** **Roll-call Polling** |
| **c. Binary Tree polling** | **d.** **Contention protocol** |

1. **Giga Ethernet name:**

|  |  |
| --- | --- |
| **a.** **IEEE 802.2** | **b.** **IEEE 802.4** |
| **c.** **IEEE 802.3z** | **d.** **IEEE 802.5** |

1. **In (100 Base FX), FX means =**

**a.500m b. twisted pair c. fiber optics**

1. **In Giga Ethernet 1 Gbps =**

**a. 1000Mbps b. 10Mbps c. 100Mbps**

1. **One type of fixed assignment protocols is:**
2. **Frequency division multiple access. b. Contention protocols. c. Round robin protocols.**
3. **A protocol in which a node verifies the absence of other traffic before transmitting on a shared transmission medium:**
4. **Persistent CSMA. b. P-persistent CSMA c. CSMA.**
5. **In CDMA each user has its own \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_**

**A. code word. B. preamble.**

**C. trial bits. D. frequency.**

1. **Pure aloha multiple access used \_ \_ \_ \_ \_ \_ \_ \_**

**A. optical fiber. B. wireless LAN.**

**C.WAN. D. MAN.**

1. **C = n. w <c> is:**

**a. bandwidth of channel Hz**

**b. bandwidth of each sub-channels Hz**

**c. number of connected nodes to the channel.**

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**Question 3:**

**Complete the following:**

1. **When collision detection: it sends ………………………….. to tell other stations that collision has occurred .**
2. **……………………………… a protocol in which a node verifies the absence of other traffic before transmitting on a shared transmission medium.**

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**Question 4:**

|  |  |  |  |
| --- | --- | --- | --- |
| **1** | **Pure Aloha Multiple Access** |  | **Time is divided into slots.** |
| **2** | **Slotted Aloha Multiple Access** |  | **Used in wireless LAN.** |

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**Question 5:**

1. **What are Key elements of protocol?**

**1-………………………………………..**

**2-……………………………………….**

**3-……………………………………….**

1. **In (D= nT + t), what does each letter mean?**

**D: ………………………………………………**

**n: ………………………………………………**

**T: ………………………………………………**

**t: ………………………………………………**

1. **CSMA= ………………………………………**

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