**FIEC - Licenciatura en Redes y Sistemas Operativos**

**Fundamentos de Redes Inalámbricas**

**Examen Parcial Diciembre 07, 2010**

**Profesor: Ing. Néstor Arreaga A. Alumno:**

**1.-Consteste lo siguiente**

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| **a.- Describa los conceptos de los siguientes términos:**  **EIRP\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Beacons \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **CAM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Warchalk\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**b.- ¿Cuál es la diferencia entre la unidad de medidas en decibelios dbm, dbi y dbd?  
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**c.- Describa cuales son los beneficios que ofrecen las WLAN.**

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**d.- Describa Brevemente las características de las siguientes tecnologías:**

**802.11i \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**802.11e \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**802.11.f \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**e.- Indique y describa Los fenómenos que afecta a las RF en la transmisión de datos**

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**f.- Describa todas las características del proceso de Roaming que realizan los AP en las redes inalámbricas.**

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**g.- Que opciones de configuración ud. debe establecer en un AP Aironet 1200 para establecer una pequeña red inalámbrica funcional y que entregue apropiadamente las direcciones ip a los clientes . Así mismo diseñe un grafico que defina la topología de la red que va a elaborar, use CLI para su configuración.**

**2.- Answer the question**

**a.-What causes the Status LED to blink green in a 1200 series AP?**

**transmitting/receiving packets**

**no devices associated**

**general warning**

**no special meaning**

**b.- When configuring the AP Radio Port Hardware setup page, which settings are recommended in situations where communication is poor and many client devices are associating with the access point?**

**low fragment threshold and high RTS threshold**

**high fragment threshold and high RTS threshold**

**high fragment threshold and low RTS threshold**

**low fragment threshold and low RTS threshold**

**c.- Which command is used to set the parent AP for a repeater AP?**

**AP(config)# parent 10.0.0.1**

**AP(config-if)# parent 1 10.0.0.1**

**AP(config-if)# parent 1 abcd.1234.ab12**

**AP(config)# parent abcd.1234.ab12**

**d.- What is the behavior of a wireless bridge when configured as a root bridge?**

**It associates and communicates with any wireless device on the network.**

**It associates and communicates only with other root bridges.**

**It associates and communicates with multiple non-root bridges but only a single root bridge.**

**It associates and communicates with multiple non-root bridges but will not communicate with other root bridges.**

**f.- On the Cisco AP 1200 series, what is the name of the 802.11a radio interface?**

**interface dot11radio 0**

**interface dot11radio 1**

**interface dot11radio a**

**interface 802.11a radio**

**3.- Defina las características de básicas y fundamentales para implementar redes inalámbricas usando Access Point y Brigde.**