

**Nombre de la Materia:** Fundamentos de redes**Nombre del alumno: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Nombre del Profesor:** Lizethe Pérez Fuertes **Matrícula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Ejercicio 13. “CRC”**

En una red de cobertura local, las estaciones **A** y **B** se comunican entre sí utilizando una comunicación de punto a punto. Ambas estaciones de trabajo utilizan el polinomio **G(x)= x4+ x3+ 1** para calcular el **CRC**. Suponga que la estación de trabajo **A** desea enviar el mensaje **M(x) = 11100110** a la estación de trabajo **B.**

1. ¿Cuál es el grado **r** del polinomio generador **G(x)**? ***(20 puntos)*** \_\_\_\_\_\_\_\_\_\_\_
2. ¿Cuál es el valor de **xr** expresado en binario? ***(20 puntos)*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. ¿Cuál es el valor de **M(x) \* xr**? ***(20 puntos)*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. ¿Cuál es valor del **CRC** que la estación **A** debe agregar al mensaje? ***(20 puntos)*** \_\_\_\_\_\_\_\_\_\_\_\_
5. ¿Cuál es el mensaje **T(x)** que la estación **A** enviará a la estación **B**, una vez que el **CRC** ha sido calculado (expresado en binario)? ***(20 puntos)***

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