

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

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

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**Tarea individual 4. “CRC”**

**Objetivo**: Que el alumno ponga en práctica algunas técnicas de detección de errores dada una secuencia de bits recibidos.F

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)= x6+ x3+ x1+ 1** para calcular el **CRC**. Suponga que la estación de trabajo **A** desea enviar el mensaje **M(x) = 101001100110101** a la estación de trabajo **B**.

1. ¿Cuál es el grado **r** del polinomio generador **G(x)**? ***10 puntos*** \_\_\_6\_\_\_\_\_\_\_\_
2. ¿Cuál es el valor de **xr** expresado en binario? ***10 puntos*** \_\_\_**x6**  = **1 000 000**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. ¿Cuál es el valor de **M(x) \* xr**? ***20 puntos*** \_\_\_\_\_\_**101001100110101000000**
4. ¿Cuál es valor del **CRC** que la estación **A** debe agregar al mensaje? Incluir procedimiento. ***40 puntos*** \_\_\_\_\_\_\_11110\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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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