

## **Home Work # 9**

1. What is Nyquist rate? How does noise affect channel capacity?
2. Describe crosstalk and give some possibilities for reducing its effect.
3. Explain how an echo suppresser may interfere with data transmission. What steps are normally taken to prevent this interference?
4. Describe three kinds of error-detection codes and explain how they detect data errors.
5. What is a forward error-correcting code? How do such codes function?
6. What is the purpose of the switching system? What are network protocols?