Distinguish, differentiate, compare and explain what is the main difference between Serial and Parallel Transmission in Communication. Comparison and Differences.

Difference between Serial and Parallel Transmission

- 1. In terms of transmission characteristics in Serial transmission, bytes are transmitted in a linear fashion, one bit at a time. while in parallel transmission bytes in a single character transmitted simultaneously.
- 2. In terms of comparative speed serial transmission is Slower than parallel transmission.
- 3. Serial transmission supports farther distance while parallel supports shorter distance.
- 4. Application of serial transmission is communication between two computers, Computer to an external modem, Computer to a slow printer, etc. Application of parallel transmission is within a computers bus, from computer to parallel high-speed printer.
- 5. In serial, all bits travel down a single wire, one bit at a time whereas in parallel each bit travels down its own wire, simultaneously with other bits.