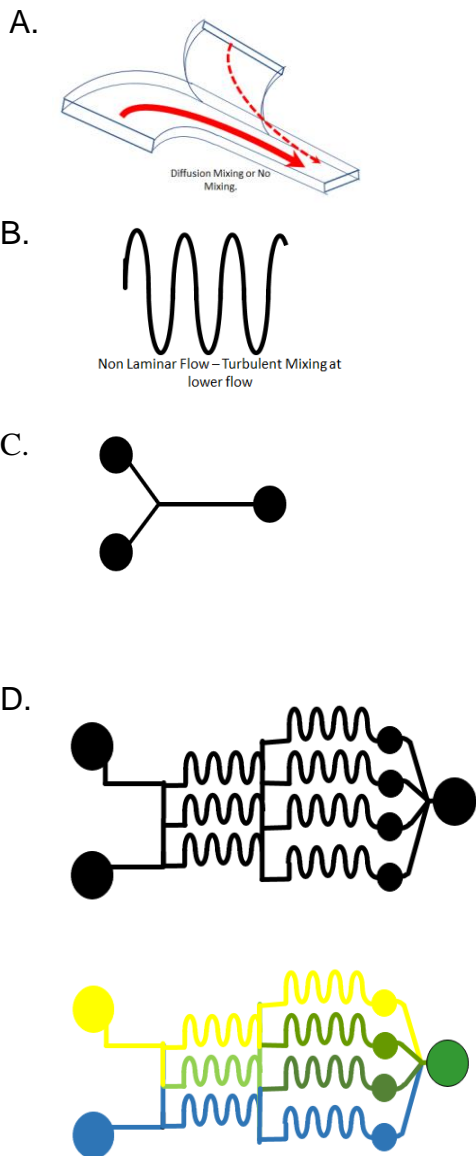


Appendix B: Characteristics of Microfluidic Devices:



A. Maintains laminar flow to a large degree – most useful in keeping different solutions apart.

B. Disrupts laminar flow to a large degree – very useful in mixing solutions gradually.

C. Disruption of laminar flow dependent on inlet flow rates; mixing at outlet highly dependent on inlet flow rates.

D. Here we see a combination of serpentine and laminar flow channels to create a color pattern from food coloring.

[Figures A – D produced by G. Hair using MS-Powerpoint]