Assignment # 1

***Question No 1***

***Q1: what is the disadvantage of lifi?***

Ans: The disadvantage of lifi is the technology which cannot be used without light this means that when there is no light there is no lifi. Light cannot penetrate wall therefore lifi signals are limited with physical barriers. Other light sources interfere to lifi internet.

***Q2: Explain the meaning of the following line:***

***single carrier techniques suffer from DC wander effects***

Ans: Single carrier modulation techniques are straightforward to implement, but for data rates higher than about 15 Mbps computationally complex equalization techniques are required in frequency selective lifi channels. Moreover, single carrier techniques suffer from DC wander effects. Alternatively, multicarrier modulation techniques offer a viable solution for high speed lifi in terms of power efficiency, spectral efficiency and computational efficiency.

***Q3: When would this technology be available in Pakistan? What would be the issues? Discuss at least***

Ans: We hope for the best that lifi may soon arrived in Pakistan because 3G is already introduced late in Pakistan. All new technology may launch in Pakistan late due to political situation. The second issue is that constantly load shedding in many area of Pakistan. Government has to wipe out the load shedding so this technology become successful.