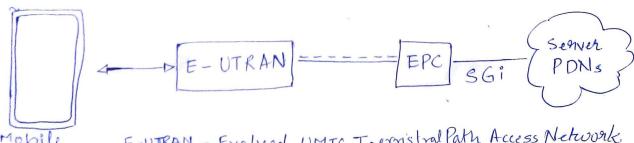
- Q1. Write notes on LTE Anchiture & Interface
- Q2. Explain LiFi.

NI> LTE (Long Term Evolution) Anchiture

- ~ LTE project started in 2004.
- A hapid surge in the mobile data usage and the emergance of online multi-user interaction in healtime meed paved way for the 4th_generation mobile networks.



E-UTRAN - Evolved UMTS Teermistral Path Access Network, EPC - Evolution packet core.

--- signal --- traffic

LTE

A high level network Architure

handles

- ~ The E-UTRAN has the radio communications between the mobile and the evolved packet core
- ~ It has cone component called exolved base stations, called eNode Bor eNB.
- ~ Eeah eNB is an evolved base station that controls the mobiles in one or more cells.
- ~ The eNB that communicates with a moble is called a serving eNB.
 - o The eNB sends & recieves natio transmission to all the mobile using the analoge & digital signal processing function of the LTE air interface.
 - The eNB controls the lower-bevel operations of all its mobiles, by sending them signalling massages such as had over.
- ~ Each eNP connects with the EPC by means of the SI interface.
- ~ It can also be connected to meanby base station using X2 interface.

A2)LiFi - Light Fidelity

- It is a warkeless communication technology which utilizes light to transmit data and position between devices.
- It is a derivative of optical wordeless communications which uses light from LEDS as a medium to deliver network.
- "Visible light communications works by swithing the current to the LED's on and off at very high speeds.
- The Right waves cannot penetrate walls awhich translates to a much sorter range,
- ~ Li-Fi is useful in eletromagnetic spensitive areas such as muchas powerflant, aircraft cato in without coursing eletromagnetic interference.
- Some of its down sides are high installation cost, low ultiability and high installation costs.