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Program BSC in CSE

Course code: CSE 443

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Dept of CSE / CSIT

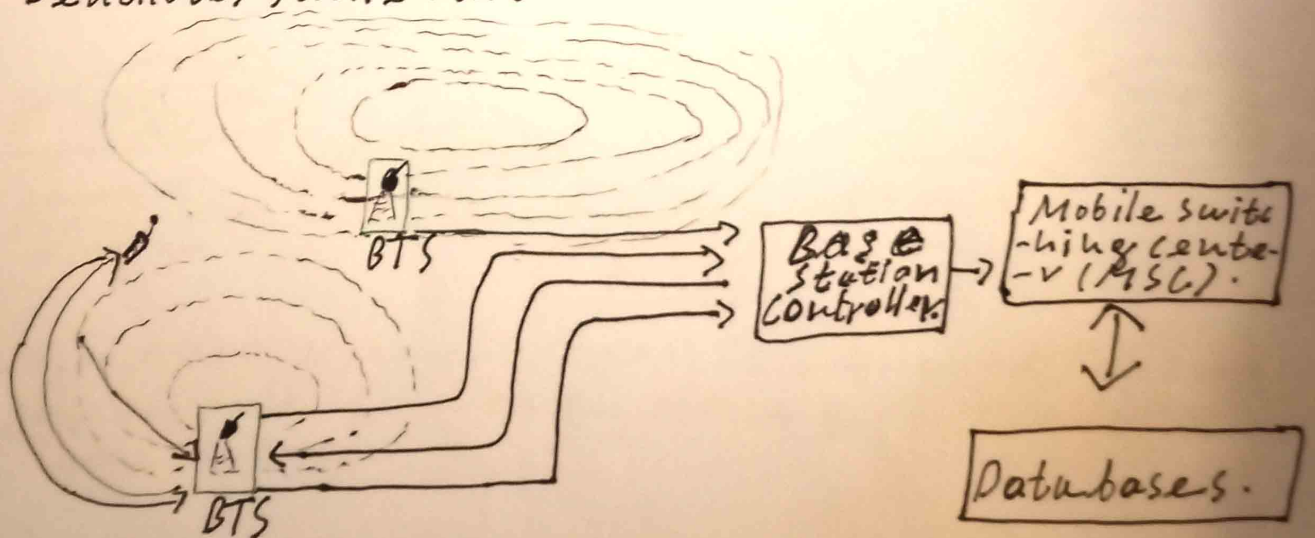
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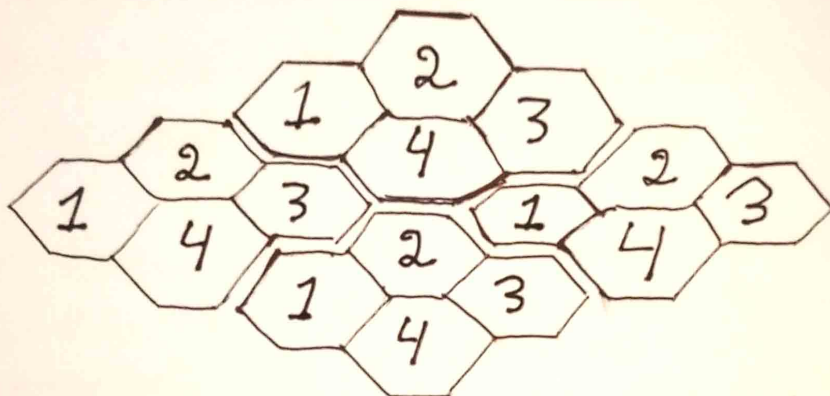
Ans 1) a) Data communication is the process of transferring data from one place to another or between two location. The basic components are sender, receiver, message, medium and ~~encoder decoder~~ encoder decoder.

Ans 1) b) Bandwidth is the data transfer capacity of a network in bits per second (Bps). Bandwidth are two type ~~as~~ asymmetric and symmetric.

Ans 3) a) 1) Listen to Overhead signal 2) send SID (and other info) 3) BTSs convey items in 2 to BSC 4) BSC Determines and Notifies suitable BS to Mobile Unit 5) Mobile Unit sends MIN and ESN to BSC 6) BSC conveys items in 5 to MSC 7) MSC consults Databases and Authenticates Mobile Unit.

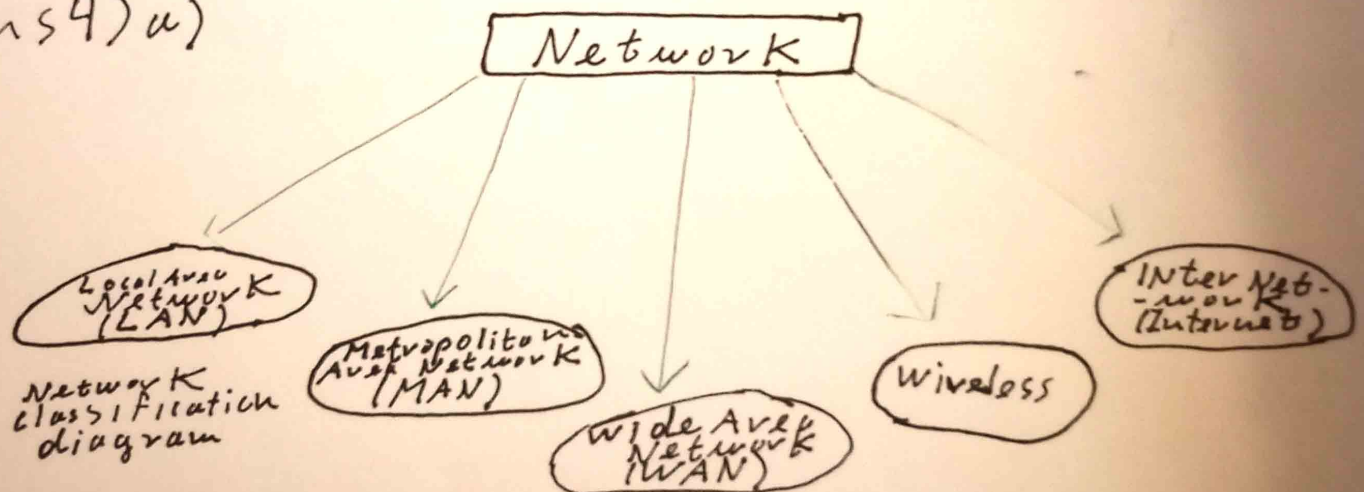


Ans 3) b) A cluster is a group of cell in which all available frequencies have been used once and only once. Since the same frequencies have been used can be used in neighboring clusters interference may become a problem. Therefore the frequency re-use distance must be kept as large as possible.



Cell pattern using 04 cell in a cluster.

Ans 4) a)



Local Area Network (LAN): It is designed for small physical area such as an office group of building or a factory.

Ans 4) a) Metropolitan Area Network (MAN): It is designed for entire city. MAN connect numbers of LAN into a larger network.

Wide Area Network (WAN): WAN can be private or it can be public leased Network. It covers large distance such as state of a country.

Wireless: It is used for short range radio as for example bluetooth connect various component together.

Inter Network: Inter network is a combination of two or more network.

Ans 4) b) Function of 2G technology is the transmission of information through voice calls, 3G is all about transferring of information through data such as images and video. 2G speed is 9.6/14.4 Kbps and 3G speed is 3.1 Mbps (Peak) 500-700 Kbps. 2G enhanced calling features like caller ID. 3G enhanced roaming.