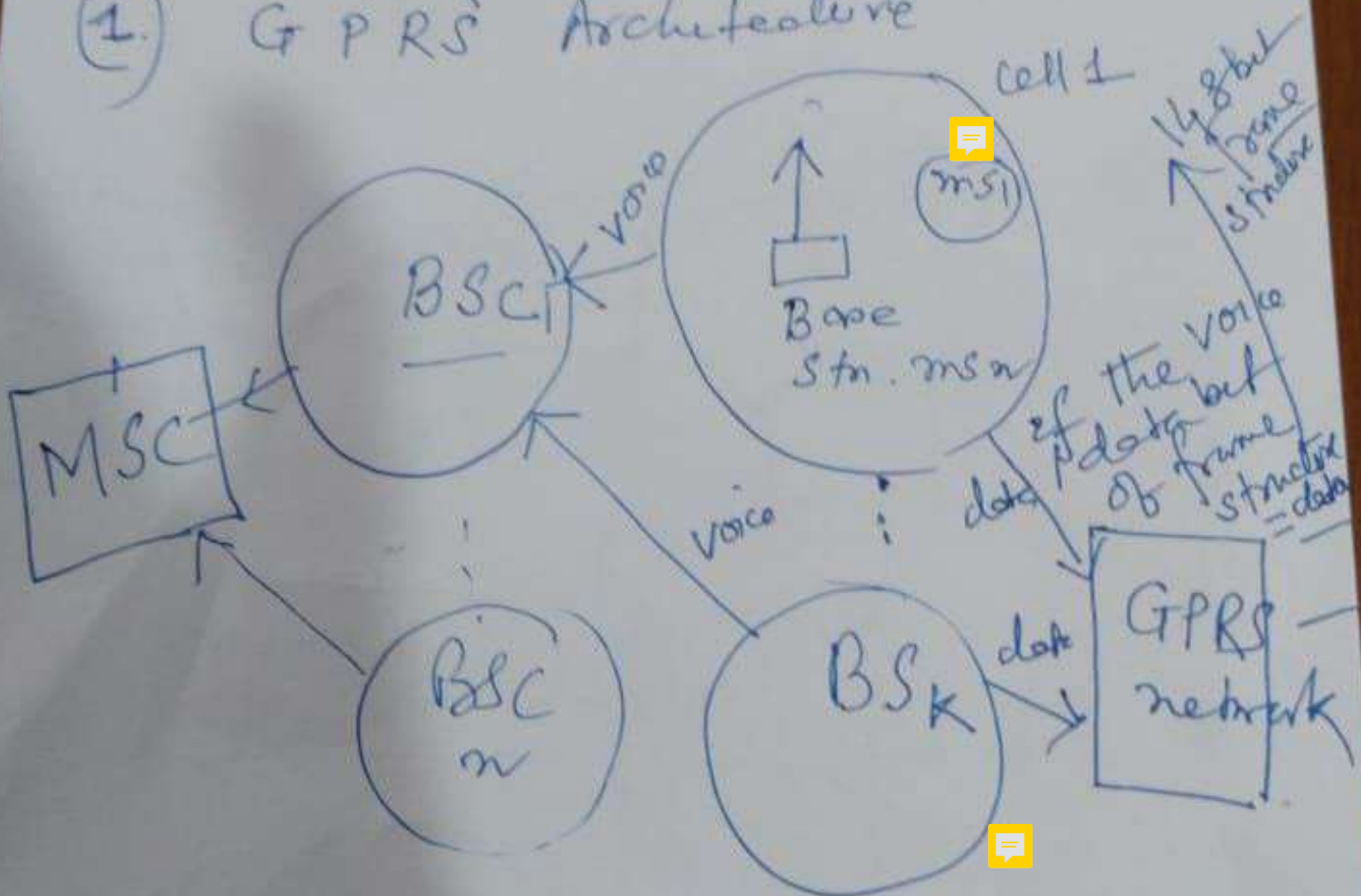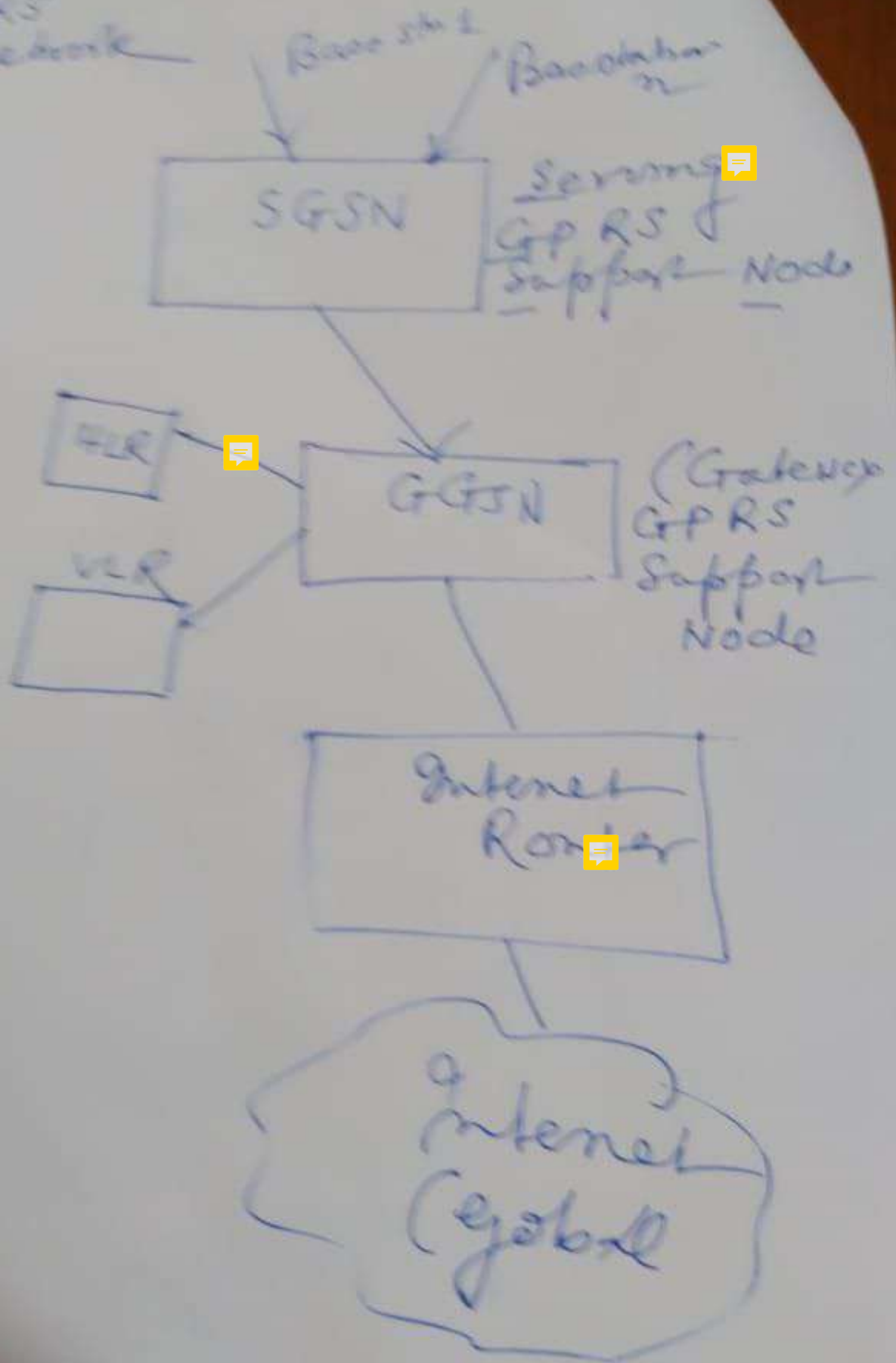Page-01   S M C N

GPRS — General Packet Radio
        Service
    — a Packed Switched data
    network overlaid on GSM.

(1.) G P R S Architecture

Cell 1

msi

Base
Stn. msn

BSC

MSC

voice

voice

BSC
n

BSk

voice

data

if the
data
of frame
voice
but
structure
= data

data

GPRS
network

14 8 bit
frame
structure

GPRS network

Base sta 1   Base station n

```
        SGSN          Serving
                      GPRS &
                      Support Node

HLR  ——    GGSN       (Gateway
                       GPRS
VLR  ——                Support
                       Node

        Internet
        Router

        Internet
        (global)
```

(HLR)

(iii) HLR → (Home SGSN)

Mobile Info.	Ai Info (A Info)	Balan Bse estnId
SIM No. / IP addr	schen	H o/1 / G SN id.
—	—	—

— IP addres can be statically allocated
to each Mobile stn.
— costley
— Dynamically allocated during
Internet session — WWW
— FTP
— Email

(iv) VLR VLR (visiting SGSN)

Mobile Info / Acctfudt Balanc

SIM	IP. addr	Sche		Baseld	→ Bse estn. Id.