

Ans:- Advantages of GSM

→ Communication:- mobile, wireless communication, support

for voice and data services.

→ Total mobility:- International access, chip card enables use of access points of different providers.

→ Worldwide connectivity:- One number, the network handles every location.

- High capacity :- Better frequency efficiency, smaller cells, more customers per cell.
- High transmission quality :- High audio quality and reliability for wireless, uninterrupted phone calls at higher speeds (e.g. from cars, trains).

Services of GSM

GSM telephone services are broadly classified into three categories: bearer services, tele services and supplementary services. Tele services are mainly voice services that provide subscribers with the complete capability to communicate with other subscribers. Data services provide the capacity necessary to transmit appropriate data signals between two access points creating an interface to the network.

Features of GSM

- One of the remarkable features of GSM is the Subscriber Identity Module (SIM). This is a memory device that stores information like the subscribers identification number, the networks

and territories where the subscriber is empowered to service, privacy keys and other user specific information. SIMs are available as smart cards that can be inserted in to any GSM phone. GSM mobiles will not function without inserting SIM card.

→ The second feature of GSM is the on the air privacy, which is supported by the system. The privacy is attained by encrypting the digital bit stream, conveyed by a GSM transmitter, with a specified secret cryptographic key that is known only to the cellular carrier.