DEPARTMENT OF INFORMATION TECHNOLOGY

Subject: Wireless and mobile Network (WMN)	Subject Code: 22622
Semester: 6th	Course: IF6IA
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Experiment No:	2
Title of Experiment	Perform the process of call connection and call release of cellular Mobile system

AIM:

Perform the process of call connection and call release of cellular Mobile System.

PROCEDURE:

Steps for connecting GSM Modem with Hyper terminal software:

1. Connect the setup as shown in the block diagram given below.

2. Start the PC and load the required software for GSM modem/Trainer.

3. Start the Hyper terminal software.

4. Open File->New Connection

5. Set the COM1 properties with default values as:
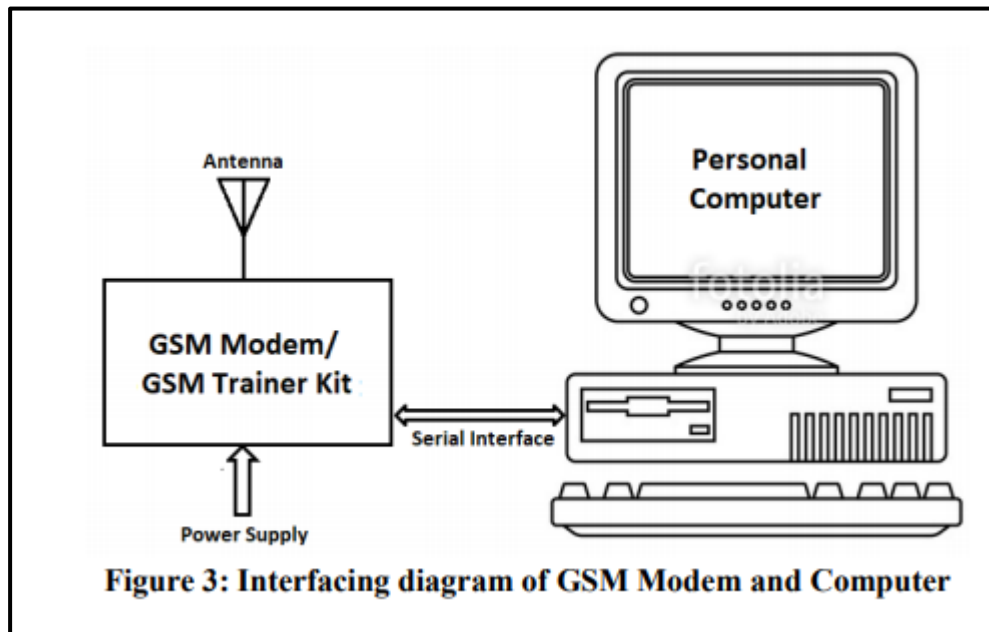
Speed/Baud rate: 9600

Data Bits: 8

Parity: None

Stop Bit: 1

Flow Control: None

6. Type "AT" on the screen (command line) and detect connection by receiving response "OK"

7. Type the various commands and check their responses.

8. Record the responses of given various commands in the observation table.

DIAGRAM:

Figure 3: Interfacing diagram of GSM Modem and Computer

OBSERVATION TABLE:

SR NO	COMMAND	DESCRIPTION
1	ATD<number>	This command is used to establish a voice call.
2	ATA	Command is used to accept an incoming call
3	ATD<n>	This command dials the phone number with accordance to the modifiers of n.
4	ATH	This command is used to end the call.
5	AT+CCFC	Command is used to set the call forwarding service
6	AT+CLIP	Command is used to set and request the status of the

		calling line identification presentation service. Depending on the setting the number of the calling party will be shown as result code+CLIP:, on incoming calls (after every RING).

PRACTICAL RELATED QUESTIONS:

1. **What do you mean by PSTN?**
   Ans:
   PSTN stands for Public Switched Telephone Network, or the traditional circuit-switched telephone network.
   Public Switched Telephone Network (PSTN) is an agglomeration of an interconnected network of telephone lines owned by both governments as well as commercial organizations.
   The phones themselves are known by several names, such as PSTN, landlines, Plain Old Telephone Service (POTS), or fixed-line telephones.
   PSTN phones are widely used and generally still accepted as a standard form of communication. However, they have seen a steady decline over the last decade.

2. **What is the effect of field strength on call connection?**
   Ans:
   Field strength affects call connection if the strength of the signal is weak. As it is the signal power received by the wireless client. Strong field strength will result in good call connection.

3. **List Network Service types.**
   Ans:
   User management
   Email
   Print services
   System Administration
   Configuration and management
   Remote Access
   File management
   Information
   Communication

4. **State the websites providing free SMS service.**
   Ans:
   Messagebird

SS Infos
160by20
FullonSMS
ICQ
Skebby
Yakedi
SMSFi
AFreeSMS
AFreeSMS

5. What is the additional band proposed for 4G mobile system? How a user is alerted for the incoming call using paging mechanism of mobile network.
Ans:
The additional band proposed for 4G mobile system is 2-8 GHz.
Paging is used to alert the mobile station of an incoming call, paging is initiated by the NSS(Network Subsystem) and is based on the Location Registration Information, the Mobile Subscriber has supplied when performing the Location update.

Grade and Dated Signature of Teacher	C (4M)	P (4M)	A (2M)	Total (10 M)	Dated Sign