

INTERNET

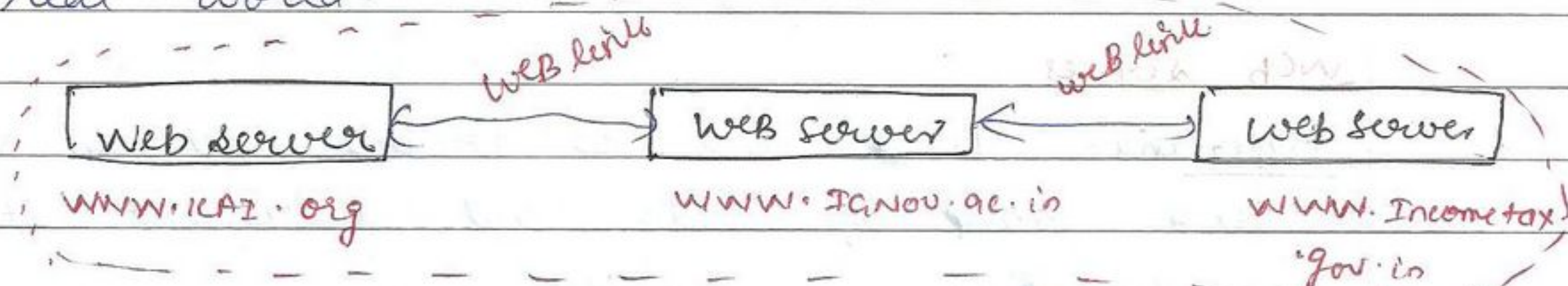
classmate

Date 29/3/12

Page 1

Inter + network = Internet

Meaning - network of network of computers which provide access to data from anywhere in this real world.



WWW (world wide web)

★ Internet is the web connection of millions of web servers spreaded over entire world that can be accessed across the globe. It is an application of wide area network.

History of internet :- In 1960, US Department of Defence (DOD) had set up ARPA [Advance Research Project Agency].

ARPA had following objective :-

- (i) TO develop a concept through which data and Resources could be shared among two or more computers in Department of Defence (DOD) of US.
- (ii) If one computer is not in function other computer in the network would continue to work.

In 1970, ARPA had developed a concept named as ARPA NET. ARPA NET was able to fulfill all the objectives of ARPA.

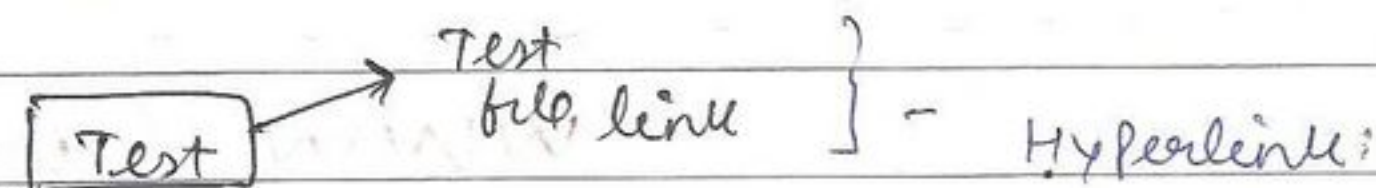
In 1979, US Department of Defence had extended ARPA NET to entire national security work named as NSF NET (National Security force)

In 1980, This NSF NET was extended for entire world and named as 'Internet'.

In India it was introduced in mid of 1990.

Web services

Hyperlink - If a link is created between one word or a group of words and document. It is known as hyperlink.

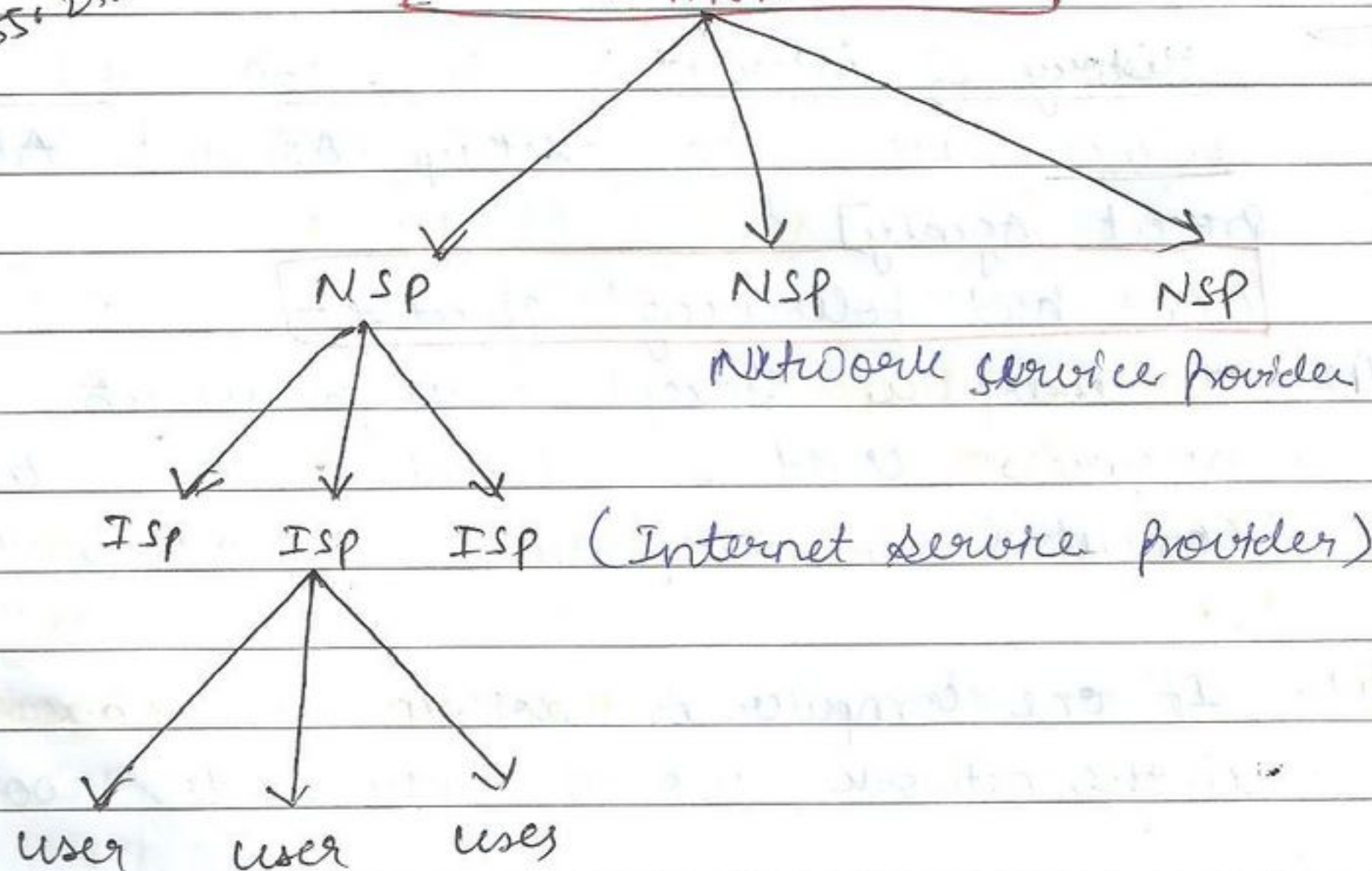


IP address :-

(Book)

Diagram
Range of IP address
0 or 0 or 0
255, 255, 255, 255

Internet assigned no.
authority
IANA



Domain name

Zones

- Ac → Academy
- org → non-profit making organization
- edu → education
- com → commercial
- co → company
- mil → military
- gov → government
- nlu → National info. system

Total IP address

$$= 256 \times 256 \times 256 \times 256$$

= maximum IP address

SUB-ZONE

• IN → India

• US → United States etc.

• PK → Pakistan

Uniform Resource Locator (URL) :-

User enter Domain name →

DNS
Converts

IP address

[for machine]
work

It is used for user convenience

Domain name server

1. for more details you may visit us at the following link

WWW.ABC.COM

This is (Domain Name) (Home Page)

2. for more details you may visit us at the following

link http://www.ABC.com/xyz/par.asp

↓
Protocol

(URL)

↓
Internet web
address

↓
Direct Page

↓
web
Page

↓
program in
which this page
is created
web page (under)
xyz

[Hyper text transfer
protocol]

JSP → Java Server Page

ASP → Active Server Page

Maximum use on
World wide

Application of internet

Communication

(Way to exchange view)

Data Retrieval

(TO get information
for individual or
organizational use)

Data publishing

[Way to publish article
on the internet]

on line
(chatting)

off line
(email)

OR
Web Browsing

Fast Technology,
Passive

Web Casting
OR Net Casting

Web surfing or net surfing

13

Data Retrieval → With the use of internet a person can get information about product, or services or any subject matter from any location at any time. User has to enter web server address or they may use search engine to get the address of web servers. There are number of web servers exist which provide large volume of information for which they are created and maintained. For eg. TeaT.org providing information about CA in india, indian rail.gov.in providing information about rail services in india;

User can use this services in two modes. They are active mode and passive mode. In Active mode also known as Web Browsing user has to actively search information they want by browsing numbers of web servers.

In passive mode also known as Web casting / push technology user has to specify what kind of information they want to receive that information will automatically forward to user's mail box whenever web server finds such type of information.

For example - Mr. Pappu wants to use information about share market to take decisions regarding investments. Mr Pappu registered himself with money control.com and specify that he wants information of share market updates. As a Result Money control.com sends share market updates to Pappu's mail id on daily basis. [Push Technology]

Business use of internet

Email → It stands for Electronic mail. It is an offline communication. It provides communication between two persons in electronic form where each user has mail box stored on web server. User has password and mail id to maintain privacy of mail. It is of two types -

(A) Public Email

(B) Private Email

(A) Public Email → It is a communication system in which any person can create his/her own mail-box for free of cost.

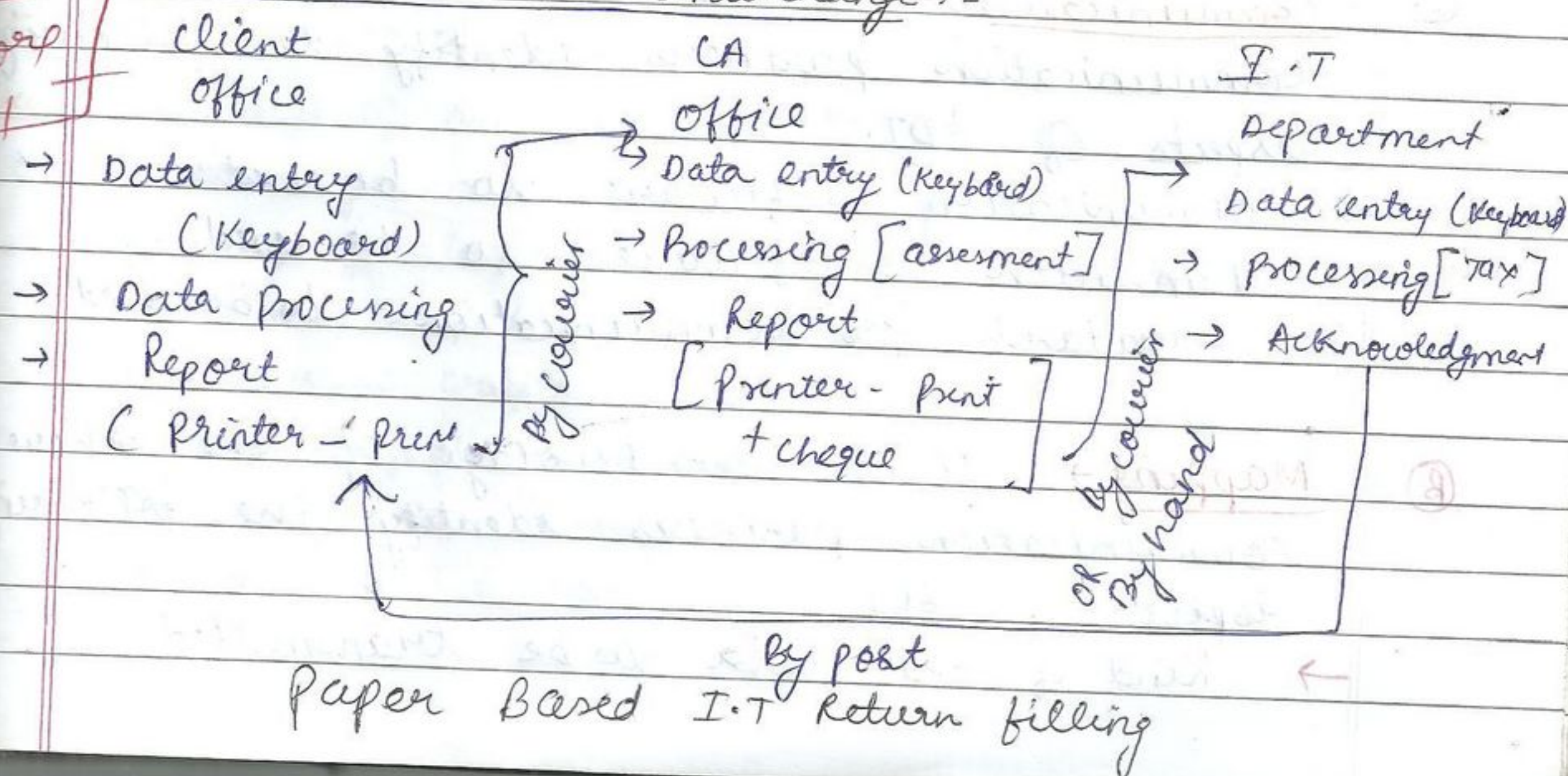
Eg. - Yahoo.com, Gmail.com etc. provides public email system

(B) Private Email → In this email system only employees of a company can send or receive mail by using company's mail box. It is not open for public.

Eg. Infosys.com, TCS.com does not provide public email system.

It has following features - Book page no. 146

Electronic data Interchange :-

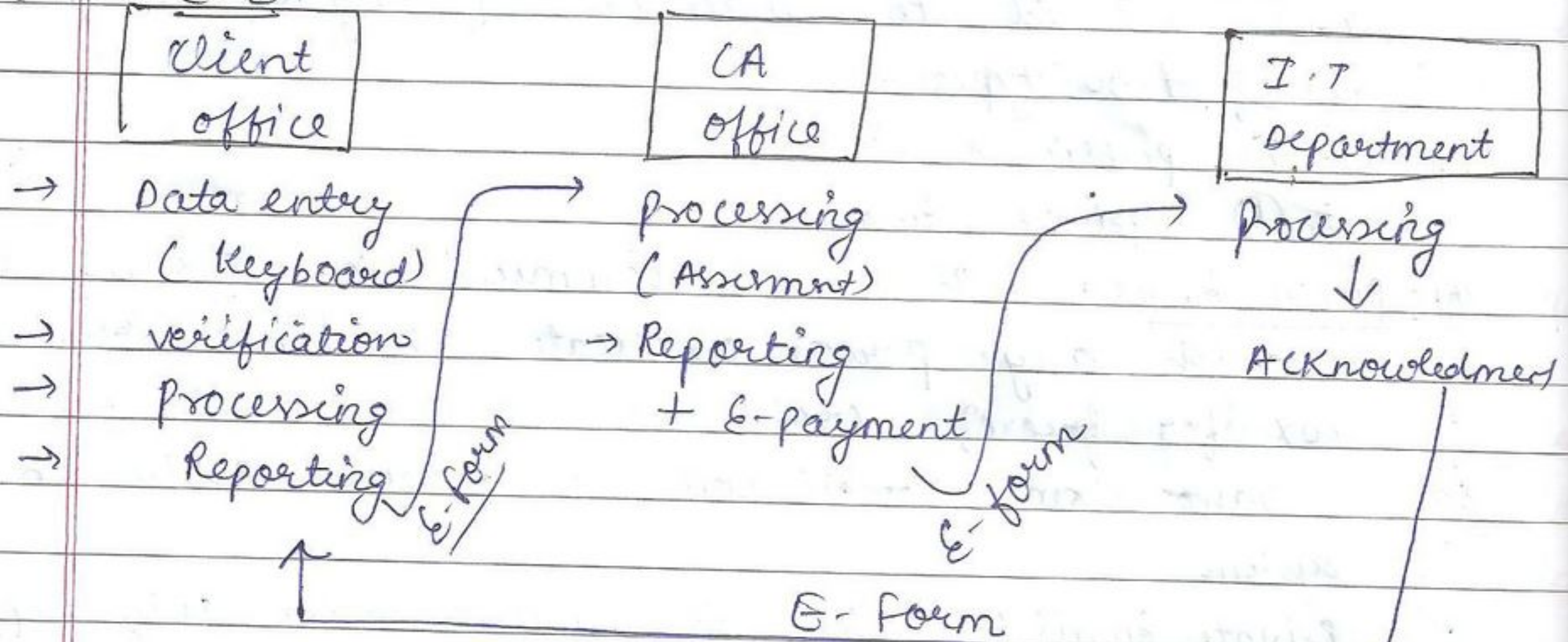


By post
Paper Based I.T Return filling

Remark.

- ① same data is rekeying again and again
- ② use of paper is high → Error high
- ③ labour use is high
- ④

(II)

EDI:-Structured electronic form :-E-filing

or paper (printed) → manual return filling

Steps

Question

Briefly explain steps involved in the working of EDI.

Ans

There are three steps involved in the working of EDI they are -

①

Communication - It is first step of EDI where communication partners identify the following aspects of EDI.

- Communication software to be used.
- Translation software to be used.
- Standards for communication to be used.

②

Mapping → It is second stage of EDI where communication partners identify the following aspects of EDI -

- Kind of EDI data to be transmitted

(user)

- Who will be the originator of request for trans-action?
- What standards originator of transaction should follow?
- Will there be need for user id and password for originator of transaction?

(C) Profiles:- It is the last stage of EDI where communication partners ~~may~~ ~~can~~ writes profile of each other to a common system which specify following types of information to the system (i.e. EDI)-

- Where to send transaction for processing?
- Which system will process transaction?
- How EDI should handle errors and exceptions in a transaction?
- Which system will report originator about errors and exceptions?
- Which system confirms users about their transaction?
- What will the mode of reporting system (sms, Email, phone call, etc).

Manual trading
or Paper based trading

E-Trading OR
E-commerce

→ Exchange of data between data buyer and seller	→ EDI
→ Exchange of payment [By cash, cheque, D.D, pay order, on credit]	→ EFT, EBT, ECS, DC, CC etc
→ Exchange of goods & services [Transport or other delivery system]	→ Either transport or electronic Sometimes]

E-Commerce Application

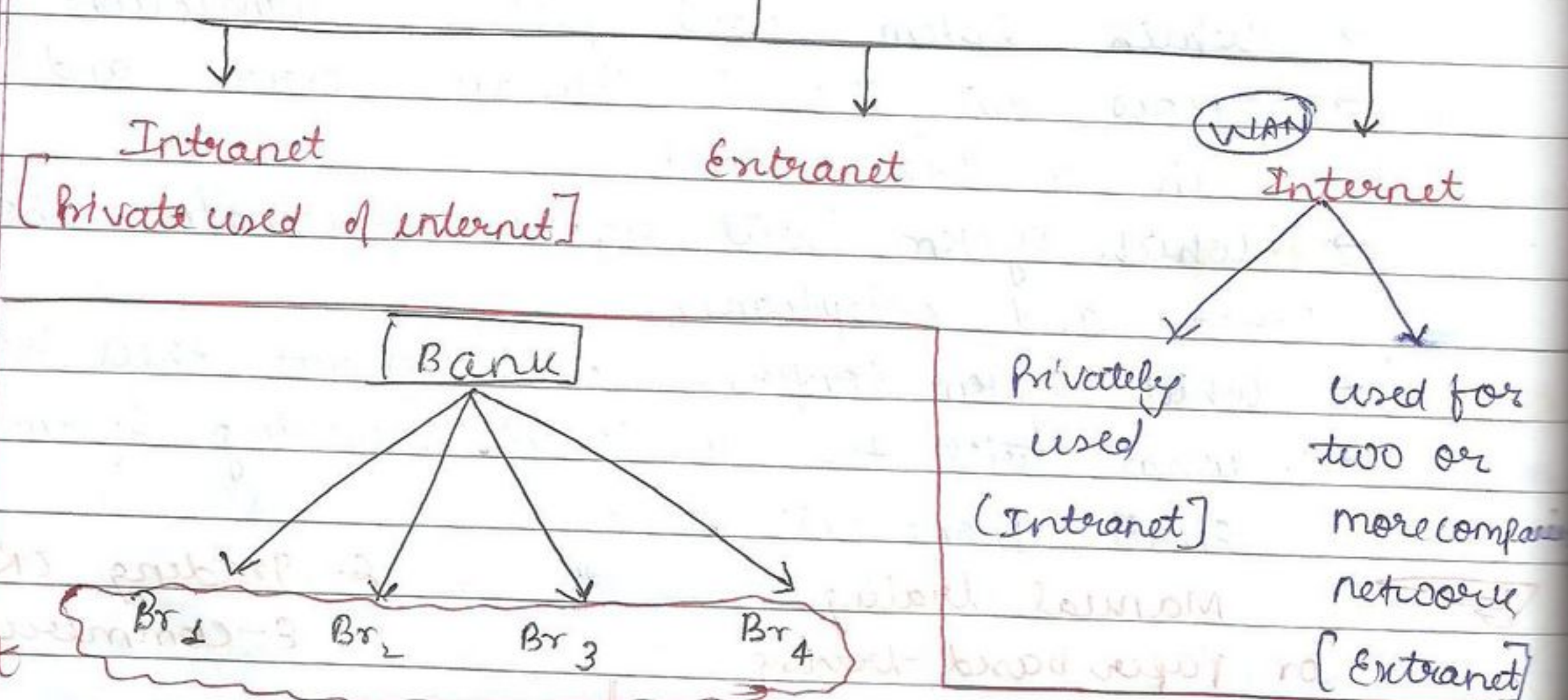
- B2C (Business to consumers) [Intranet]
- C2B (Consumer to Business) [Intranet]
- B2B (Business to Business) [Extranet]
- C2C (Consumer to Consumer) [Internet]

Example

- ① Internet → ~~Used~~ sell and purchase of used to car by internet. NO Business organization is involved in sales and purchase.
- ② Extranet → withdrawal of money from SBI ATM through PNB Debit card.
- ③ Intranet → withdrawal of money from SBI ATM through SBI Debit card.

[C2B]

E-commerce application



Intranet: It is an application of E-commerce where business data is exchanged among the operating units of an organization. It does not permit to exchange business data outside of the organization, however by using proper interface an organizations intranet may be interlinked with other organizations intranet to form Extranet system. It looks like private version of internet that can only be used within the organization.

Internet

classmate

Date 30/3/12

Page 5

Q What do you mean by Extranet?

Ans It is an application of E-Commerce where business data is exchanged between two or more business organizations known as B2B. It is a type of network where internet is used by two or more companies for processing business transactions. Also known as Extended version of Intranet. It is also a private network just like an intranet that uses internet protocols and telecommunications facilities to share part of business information among the companies. Extranet is at high risk because companies network is accessible from outside the company, so it must be well-equipped with security system such as -

1) Digital Signature Certificate

2) Firewall

3) Encryption and decryption of message.

It has following features:

1) An Extranet provides access of network from outside the companies.

2) With an Extranet, access of all information, application and data can be made available through different browser.

3) An Extranet using public version network with coding / decoding and other security

safeguards, so that companies can exchange data with other company.

(13) An Extract uses internet protocol and the public comm. system to share part of business information to other business organisation.

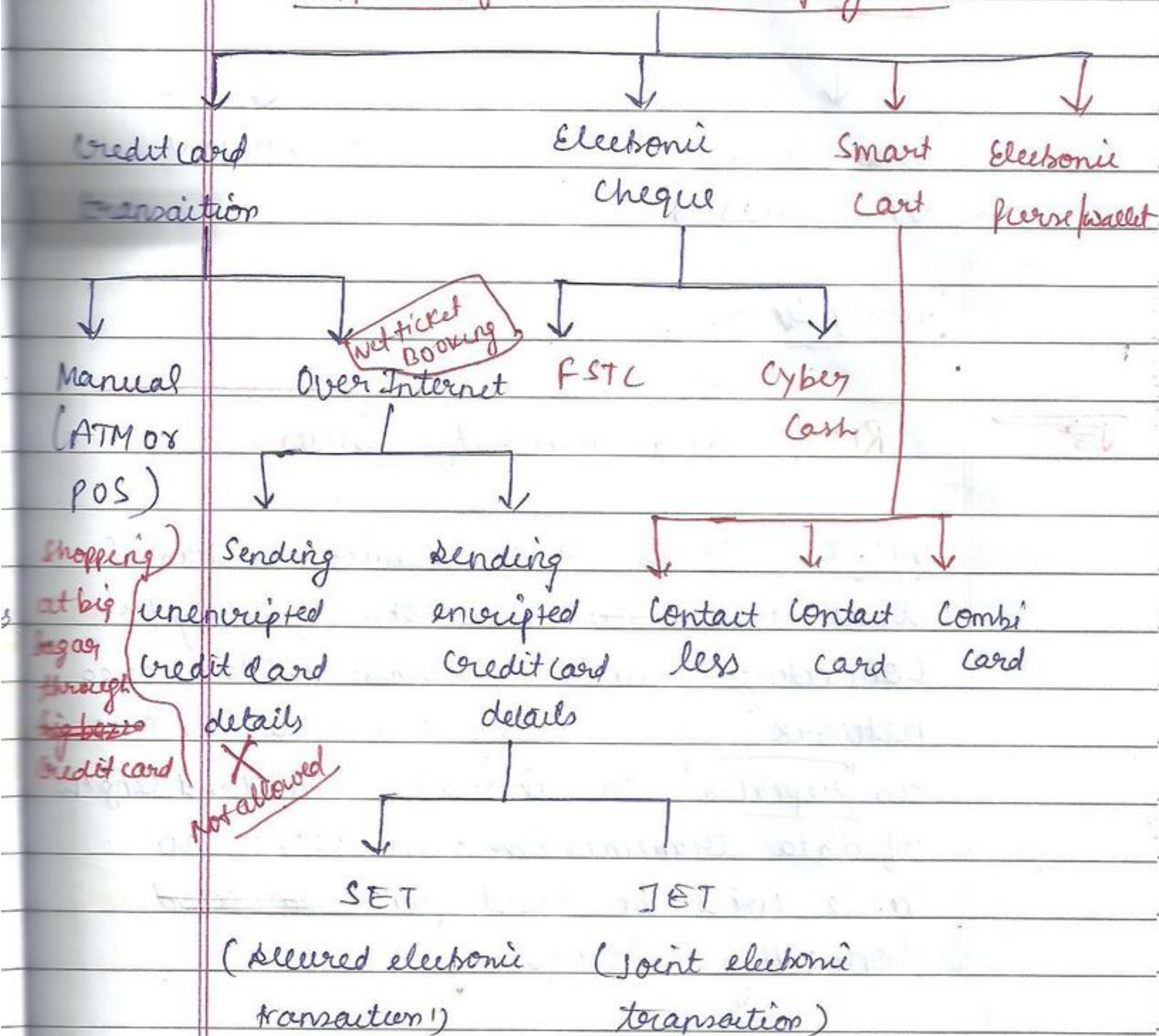
★ EBT Electronic Benefit transfer

It stands for Electronic benefit transfer. It is a type of Electronic payment system where beneficiary amount is automatically credited at the end of term.

for Eg- Interest on F.D is automatically transferred to account holders saving account at the maturity of F.D.

Eg- Crediting dividend in share holders account when dividend is declared is also an example of EBT.

Types of Electronic Payment :-

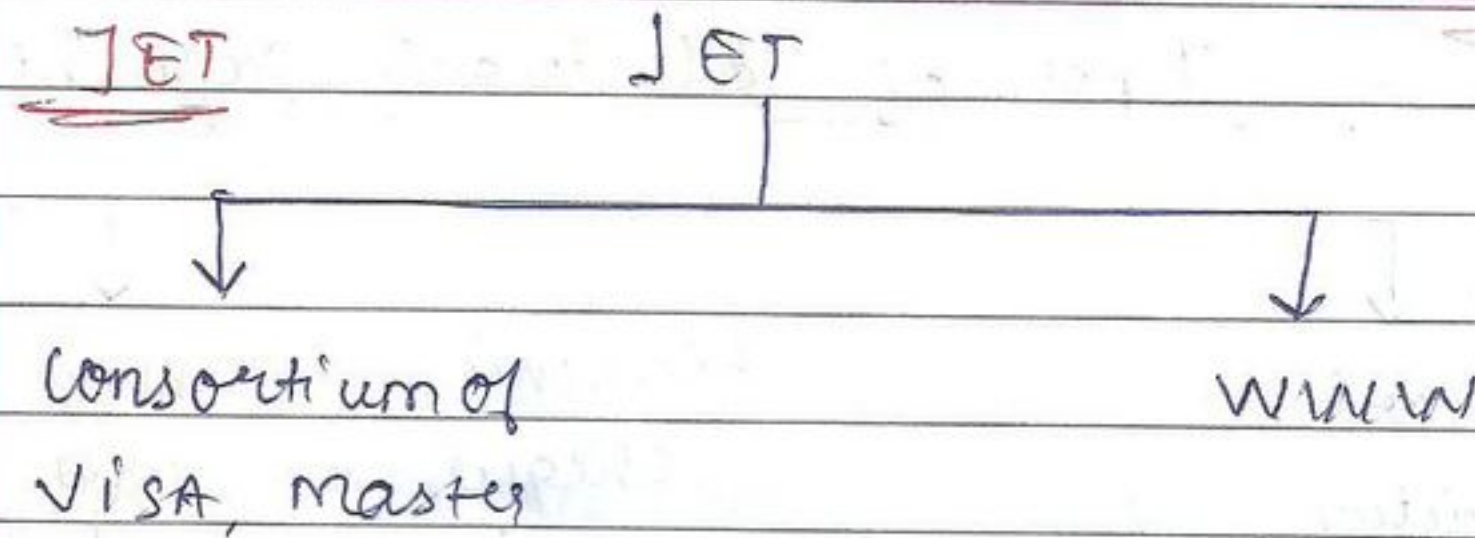


★ Consortium :- One time use only password.

Regulatory body

Eg. Customer Railway ticket buy online
digital signature certificate (PIN NO.)

- Bank
- Railway
- Customer



[verify by visa]



RISK And Security issues

WIFI - It is a communication channel that uses Bluetooth facility for connecting devices within a local area network by using some devices such as repeater to increase standard length of data transmission. In WIFI no cable will be used for ~~connected~~ connecting devices.



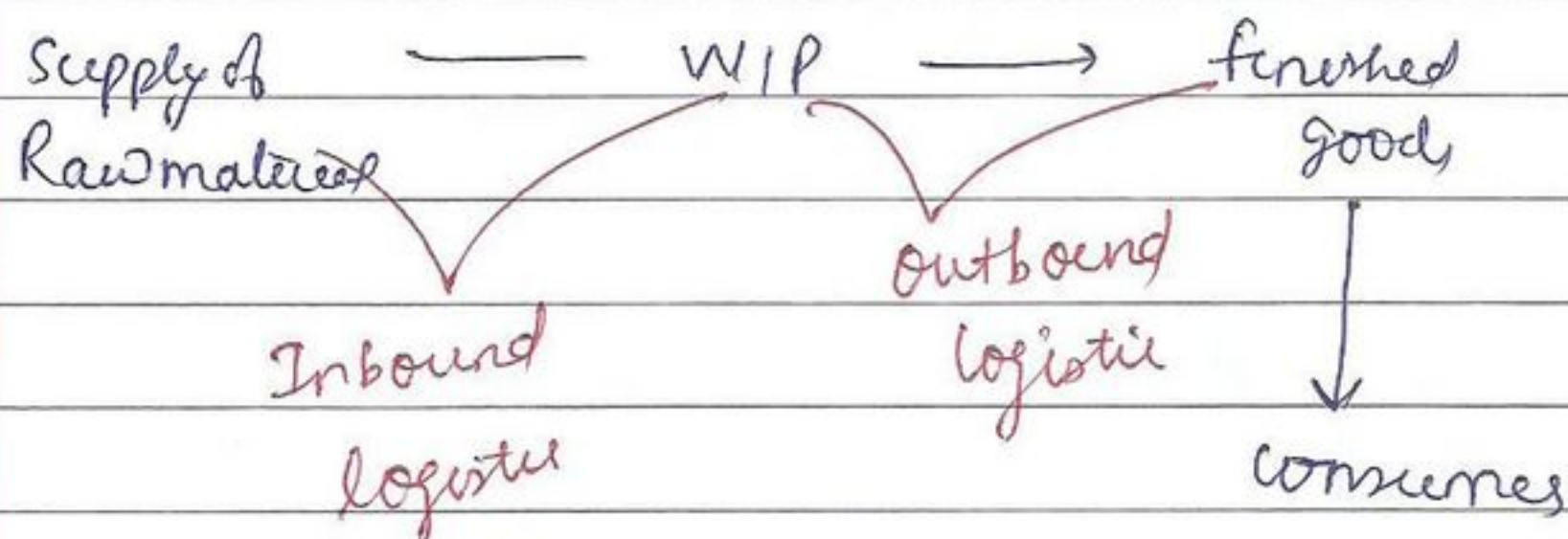
CRM - Customer Relationship Management
SCM - Supply Chain management

CRM

meaning - It is an application software that uses internet facilities which enable management of a company to create and maintain long-term relationship between the company and customers. The main objective of CRM is to make organization capable in managing

their customers in an effective way through reliable and secured processes.

SCM:- supply of raw ma



Meaning - It is supply chain management. It is an application software that uses internet facilities to maintain reliability of supply of Raw materials, movement of WIP, and distribution of finished goods, so that right quality of product can be available in right quantity at right place at right price, which ultimately enhance relationship between company and customers.