ID: 14495

Name : Haider Iqbal

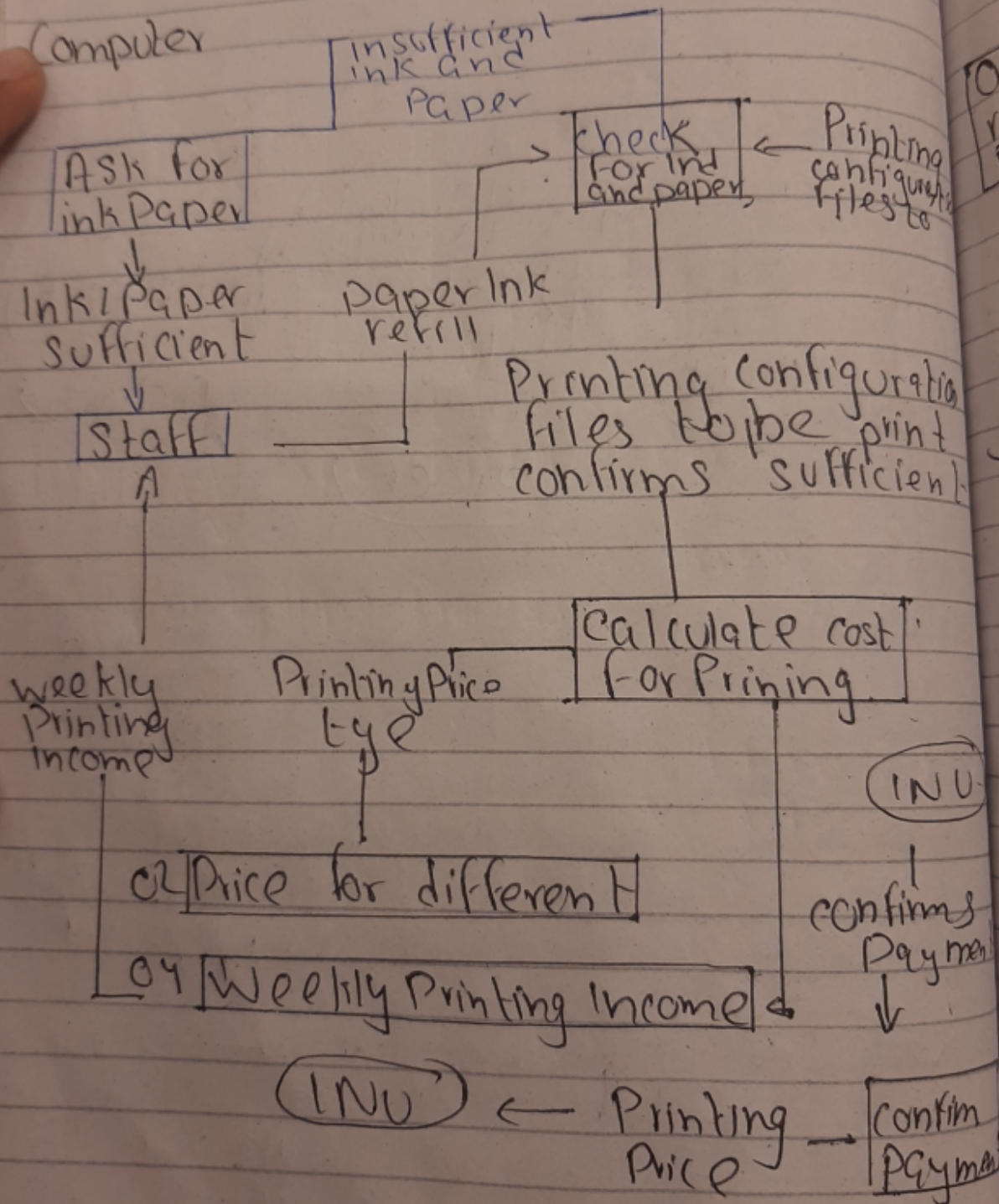Section: A

Date : 22/06/20

①

Question 1(i)

Computer

```
Insufficient
ink and
  Paper
```

Ask for
ink Paper → check
for ink
and paper ← Printing
configure
files to

Ink/Paper
Sufficient

Paper Ink
refill

Printing configuration
files to be print
confirms sufficient

Staff

weekly
Printing
Income

Printing Price
tye

Calculate cost
for Prining

INU

c2 Price for different

confirms
Paymen

c4 Weelily Printing Income

INU ← Printing
Price → confirm
Paymai

Que

Orde
regis
pro

order registration form
→ to order registration

Question 1 1i

Order
registration
process | order
detail

Press Production

Inventory Data

Inventory Process

Request for upgradation
Quotitions order
supplier challan
invoice payment
R ecipent

Supplier

order registration form
Respons2 to order registration
proof reading
modification/ changes

press
Product
Process

Billing
Process

Printing
Press
data

Response to payment
Request for
payment
supplier challan

supplier
recipent

Department | frame

Delivery
challan

Reports
As for
invoice.

Uni office

③

Question 1 iii

```
┌─────────────┐                              ┌─────────────┐
│ First copy  │          ┌──────►            │  order      │
│ Production  │     ◄─────┤                   │ completion  │
│  Process    │          │                   │  Process    │
└─────────────┘          │        ┌──────►    └─────────────┘
      │                  │        │                  │
      │                  │        │                  ▼
      │            [order Details]       castings
      │                  │                   │
      │                  ▼                   ▼
      ▼            (to press Produion   (to bill Proc
[Printing Press Master Cat 9]   Proces)
      │
      ▼                        [Inventory Deta]
  to billing Process                 ▲
                                      │
                           ( From inventor
                              Process
```
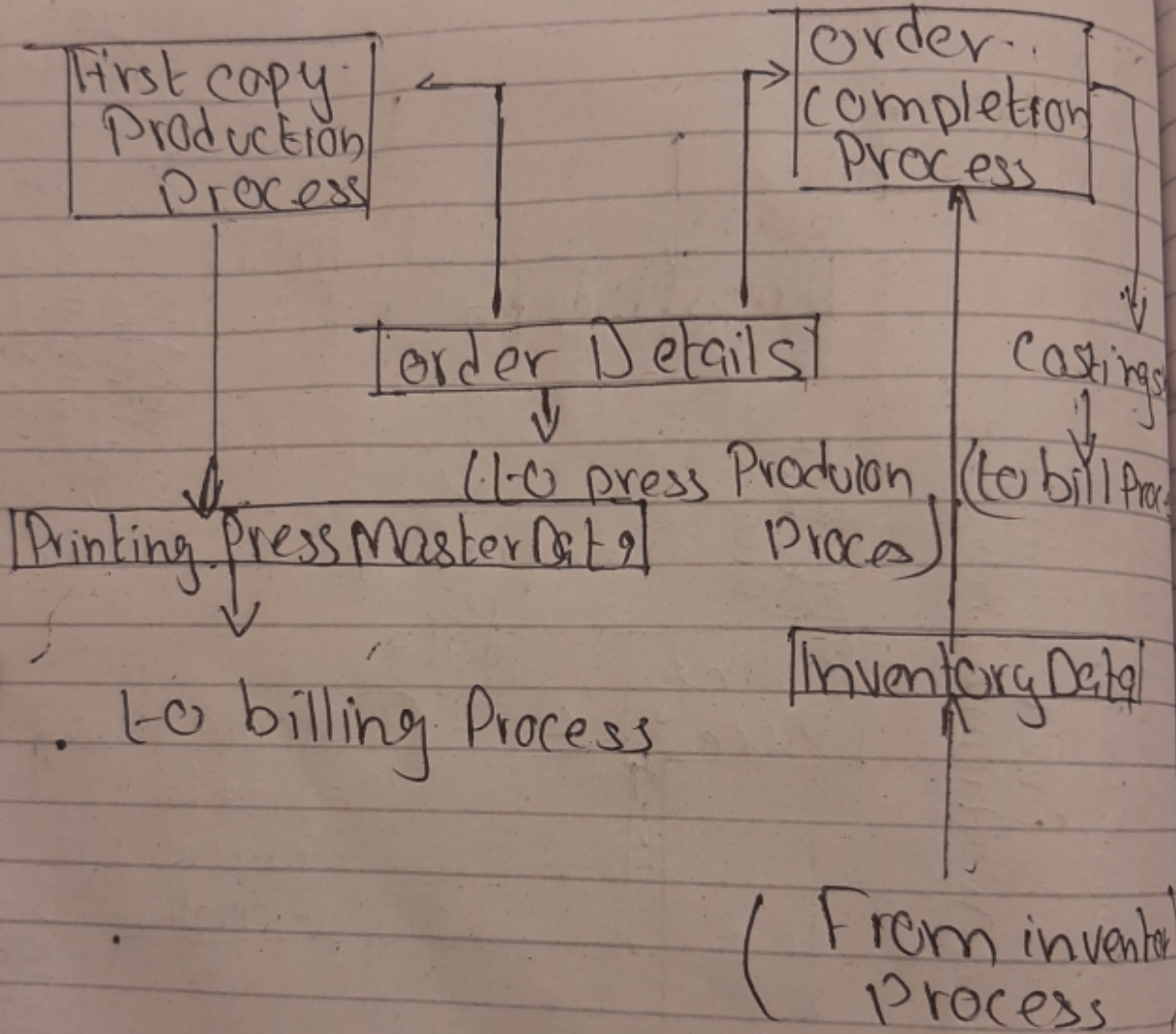
Q2 Explain why testing ...... absence

Answers -

The goal of software testing is to observe the software behavior to meet its requirement expectation. In software engineering, validating a software might be harder since client expectan may be vague or Unclear.

⟵————————⟶

Q2.2) Define the following terms:

D Unit Testing :-

Unit testing is a type of software testing where individual testing components of a software are tested. Unit testing of software product is carried out during the developement of an application.

Acceptance Testing
↑
System Testing
↑
Integration Testing
Unit Testing

2) System Testing :-

System Testing is a level of software testing where a complete and integrated software is tested The purpose of this test is to evaluate the system compliance with specified requirement.

3) Black Box Testing.

Black Box testing is the method of software testing that examines the functionality of an application without peering into its internal structure work.

Input _____ [Black Box] _____→ output
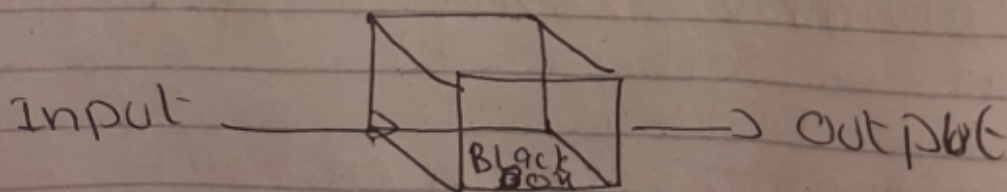
White Box testing:-

White box test is also know as clear box testing, glass box testing transparent box testing and structural testing is a method of Software testing that tests internal structure or working application.

Q3:- **Briefly** describe the .....
between them.

1) Fault repairs:-

Coding error are usually relatively cheap to correct, design error are more expensive as they many invole rewriting several program components. Required error are the most expensive to repair. because of expensive system redesign which is necessary.

2) **Environmental adaptation:-**

This type of maintenance is required when som aspect of the system environment such as the hardware, the platform operating system.

3) **Functionality addition:-**

This type of maintances is necessary when the system requirement change in response to organizational or business change the scale of the changes required to the software is often much greater than for the other.

It is difficult to differentiate between these types of maintence, because in practice there is not a clear cut distinction between these

type of maintence, when the system adapt to me new environment, then add functionality to take advantage of new environmental futures. software Faults are often exposed because user use the system in unanticipated ways. These type of mainten ce are recognized but a different person sometimes gives them different names.

$\longleftrightarrow$
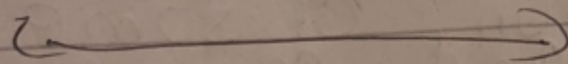
(Q3:2) What are the ..... diggram.

Ans. The quality of the Software to be re-engineered. The tool support availability for engineering. Extent of data conversion which is required

Re-Engineering also cost.

i) The quality of software to be re-engineered.

2) The tool support availabili[t] of engineering.

3) Extent of the data conversion which is required.

4) The availability of experts staff for Re-engineering

Re engineering & is a presentation or a written discription of some regular and common parts of the flow. It is known as a business process re-design or bussiness and concentration and offer reference for process reengineering.

Digram :-

Standardization

Output

BP R
Diagram

participants

input

Activities

Order