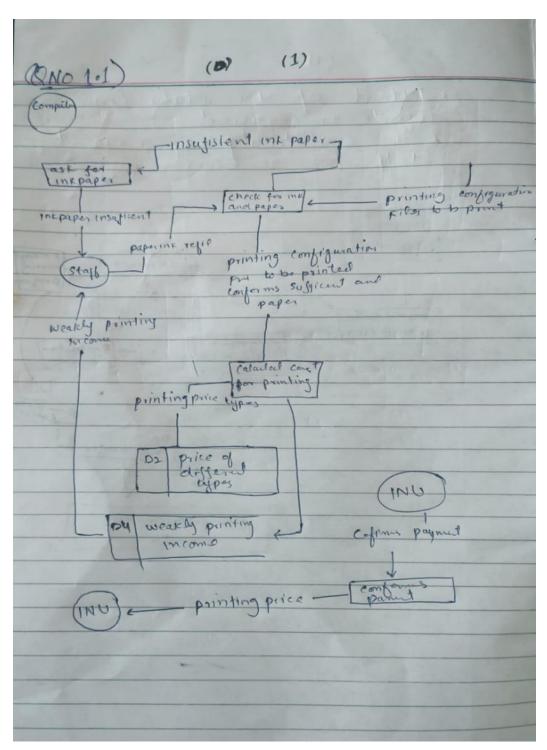
NAME: HIDAYAT UR RAHMAN

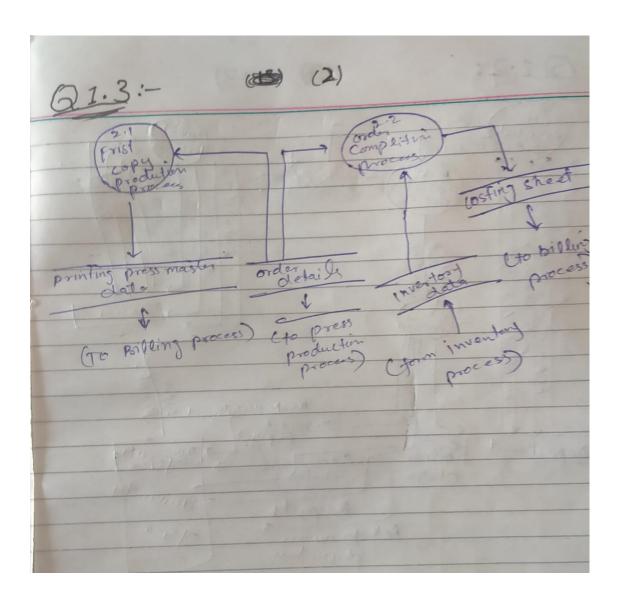
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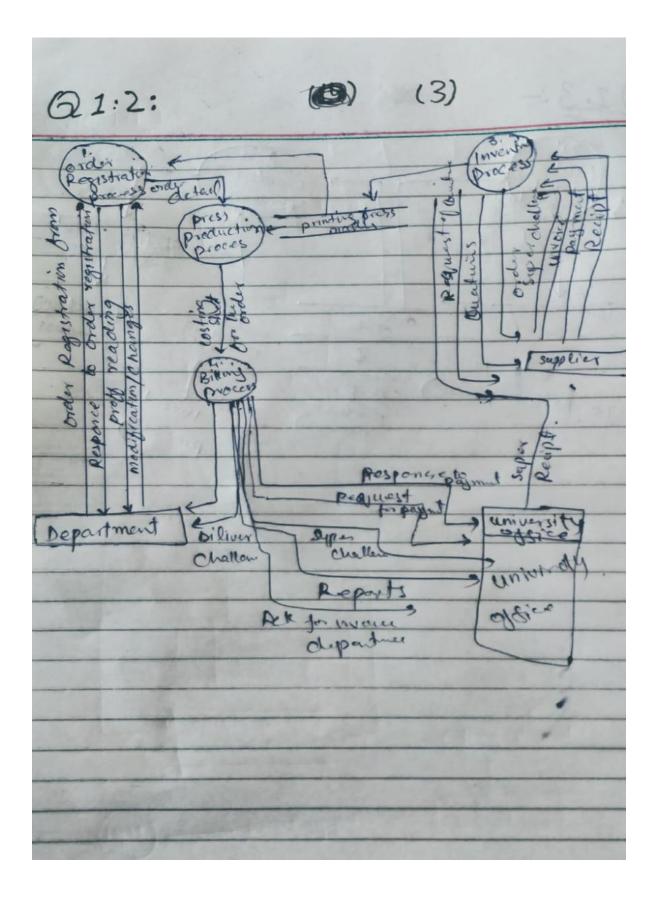
CLASS: BS (SE) 4th

SECTION: B

SUB: SOFTWARE ENGINEERING







QN02.1	Explain why testing can only detect
	the presence of the pear errors, not
	the abrances
Ans	* The good of software testing is to
	* The goal of software testing is to Observe The software behavior to
MAN SERVICE	meet its requirment expection.
	meet its reguirment expection. * Testing is a set of activities where the tester try to make the
	where the tester try to make the
	Software behave anomalous in order
	to detect a deject or anomaly to
	to detect a deject or gromaly to be later fix.
ON02.2	Define The following terms.
Ans.	1. UNIT TESTING:
	* In Computer programming unit method
	is a software testing mothed by which individual units of source Code Sets of one or more Computer programme
	individual linits of source code sels
Wall Control	of one or more compares programme
	modules together with associated
	operating procedures, are tested to
	determine whether they are fit for
100	Use.
1	* The most 'miern' scale of testing
	* The most 'micro' scale of testing. * Tests done on particular functions or code models.
16.18 1 1	or code models.
	* Require Knowledges of the internal
101	programme designed and code.
	* Done by programme (not by testers)

4000	(4)
bjectives	programme or unit of code
7/4/	Such as a program or module.
1 1 1	* To test internal logic.
	* To test internal logic. * To verify internal design.
	* To test path and conditions coverage
10000	* To test exception Conditions and
NY 33	error handling.
when	* After models are coded.
input	· Internal application Design
	A Mascer test plan.
	o Unit test plan.
output	* Unit test Report.
Jan Hall	Manual Control of the
who	· Devolper
method	* white box testing techniques.
Tools	* Debug
Ad No.	· Re- structure
1 (3)	* Code analyzers
	poth / Statement Coverage tools
Education	* Testing Methodology
	* Testing Methodology * Effective use of tools.
Buckle	CC
100	Carlos Hallo Francisco Como Como
(Call A	the comment of the contract of
AND DESCRIPTION OF THE PARTY OF	

(5) 2: SYSTEM TESTING: System testing is testing conducted on a compleate integrated system to evaluate the system's Compliance with it specified requirements. System testing takes, as its input all of the integrated components that have passed integration testing. perform control function.

To perform entersystem test

To demonestrate that The system

performs both functionally and

operationally as specified.

To perform appropriated type of

lests relating to trassiction flow,

installition, Relibility, regression, etc. Objectives when * After integration testing. Application Design.

* Master test plan.

* System Test plan. out put + system test report, Who o Devo apment team and users method & probleme/ configuration management

	(6)
Tools	* Depends
The same	ported sedicing
Education	* Testing methodology.
and the said	
100	3: BLACK BOX TESTING:
	Black boil testing is 9
210	memod of software testing that
	examin the functionality of an application with out peering into
	application without peering into
	its internal structures are workings.
	This method of test can be applied
	virtually to every leval of
-	software testing: unit, integration.
711111111111111111111111111111111111111	system one exceptings.
. 10	No knowledge of internal design
	or Code regjired. tests ouro based on requirment!
	and kunctionality.
	and functionality. * Not based on any knowledge of internal design or code. * Cover all combined parts of
	of internal design or code.
No. of Contract of	* Cover all combined parts of
0	a system
*	. Test, or dala oliven Clests
	are based on putting some data
1000000	to check the systems)
	- incorect or missing function
	-> Interface error
	> From in data structures
	or external data base
Paris a	access
	-> performance errors
100	

- Initialization and termination errors
TYPE of Black Box Testing:
* Functional Testing
* Cristom testing
o End-to-end cesury.
& sanity testing.
· Regration testing.
A Exceptance toolesting.
* Loole tosting.
* install/ un install testing
* Recovery testing
· Exploratory testing
* Comparison testing
o alpha testing
a boto tosting
a mutation cesting
internal logic of an applications
(N I P
11 Based on Coverage of code
Statments, Branches, paths, Condition
-24
a tests are logie Olriven
+ Coscines
All independent paths whith in module have been
-1 0001 0010
Escarico ane toxical
decisions their frue and
falls sides

(6) (8) -> Frecute all loops at Their boundries and with in Their operational bounds.

-> Exercise internal data structures to ensure their validity. ON03.1 Brofily describe the Three main types
of software maintance. Many is it

Some times difficult to destinguish
between Them. Ans 1. Fault Reparis: relatively cheap to correct, designa errors are more expensive as the may Invole re writing sevred programe

Components. requirement errors ouro

The most enpensive to repair

be cause of the enpensive system

re desigend which be necessary. 2. Environmental addaptation.

This type of maintenance is required when Some aspect of the systems environment such as the hardsystem, or other supports system changes the application system must be modefied to adopt it to copy with these environments nance is necossary when the system regiment changes in respon to to organizitional or busismus change. The Scale of the change Required to the software is upon much greather then for the other type of maintenese. 3. Functionility addation: they are sometimes difficult to distangush be cause the Some set one changed make our all there type of mainten ance for example a reported bault in the system may be repaired by upgracking some other software and Then add-opting system to use this new version (lorrective + addaptive) and they are upon given different names and also because faults that arise with in a system com may be have over lapping maintename required.

(6) what one the principal factors
that effect the cost of system
re-engineering? also breifly explain
the re-engineering process with the QN03.2 help of digramis Ans the principal factors that

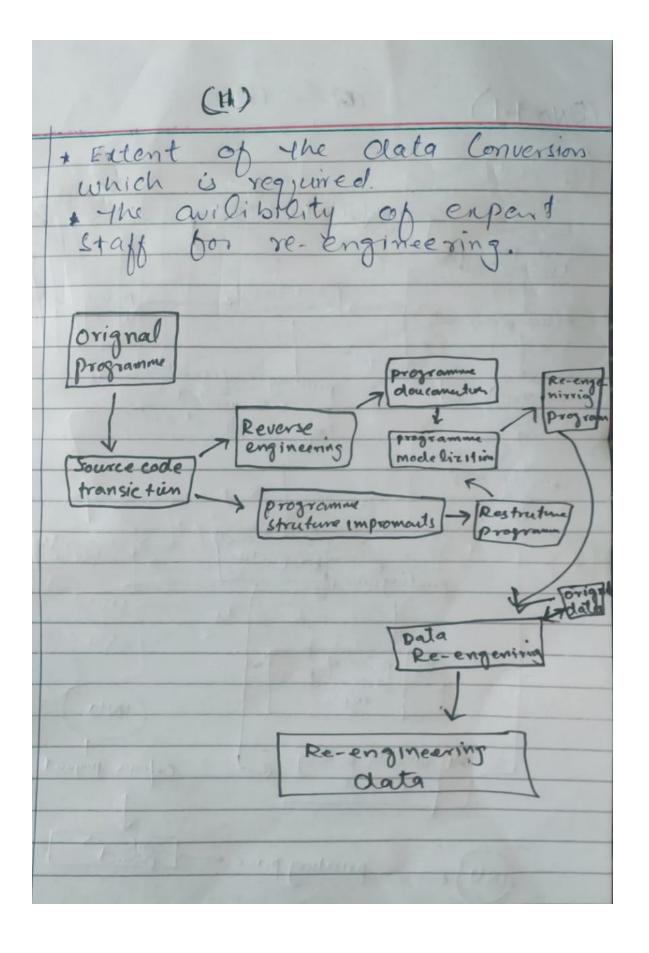
extent the Cost of System re-engineering are the qualatity of

the software to be re-engineed

the lower qualaty of the sofware and its associated documention Re- engineering process The examination and ulternation of The System to Resonstitute et Re-engineering when applied to software devolpment process is Called software re-engineering it effect positive by at Software Costs & qualatiy, service to the Customer and speed of dilivery, Software Re-engineering we are to make it more efficient and Re-engineering Cost factors.

* The qualatity of the segware
to be re-engineered

* The tool support awilibility
for engineering.



THE END

THANKS