SE

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* ASSIGNMENT 3 *

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Q1. Explain SQA activities.

→ Prepare SQA plan for a project
→ Plan is developed as part of project planning & is reviewed by all stakeholders.
→ Quality assurance actions performed by SE team & SQA group are governed by plan.
→ The plan identifies evaluations to be performed, std that are applicable to proj, procedures for error reporting & tracking work prod that are produced by SQA group, & feedback that will provide to S/w team.
→ Review SE activities to verify compliance with defined S/w process.
→ The SQA group identifies, doc, and tracks deviations from process & verify that corrections have been made.
→ Audit designated S/w work product to verify compliance with those defined as part of S/w process
→ The SQA grp reviews selected work products, identifies, docs and tracks deviations verifies that correction have been made.
→ Ensure that deviations in S/w work and work product are documented & handled acc to a doc procedure.
→ Deviations may be encountered in project

plan, process description, applicable standards or SE work products.
→ Records any non compliance & reports to senior management.
→ Non compliance items are tracked until they are resolved.

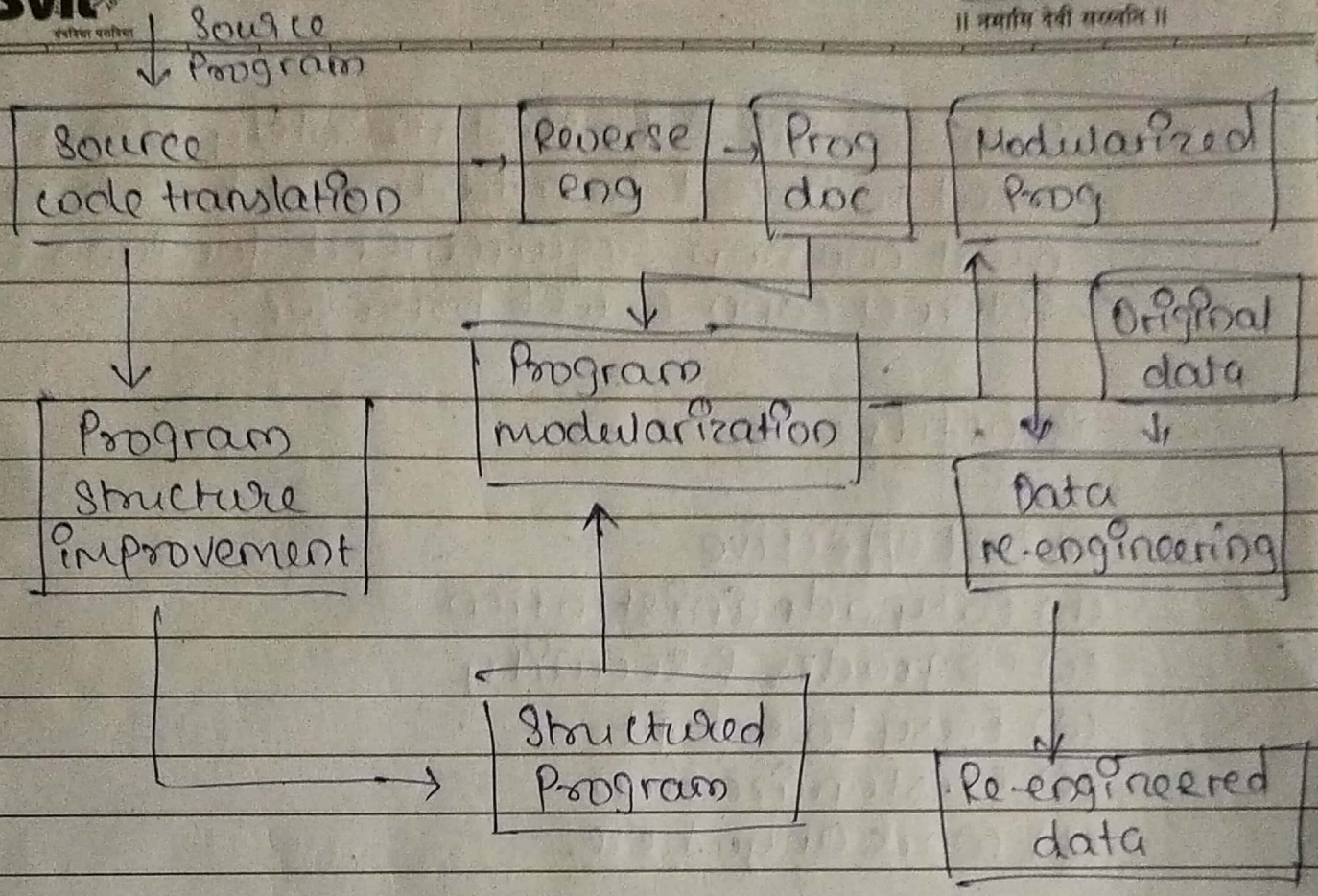
Q2. Explain S/w re-engineering Process model.

→ S/w re-engineering means re-structuring or re-writing part or all of a SE system.
→ S/w re-engineering is needed for application which require frequent maintanance.

→ Advantages of S/w re-engineering.

→ Reduced risk - re-engineering allows developer to eliminate certain contraints on system. This help in reducing risk of failures.

– Source code translation - In this phase code is converted to new language.
– Reverse engineering - under this act program is analysed & understood throughly.
– Program structure improvement - Restructure automatically for understandability.



→ Program modularization - The program structure is recognized.

→ Data re-engineering - Finally clean-up & restructure system data.

Q3. Explain S/w as a service (SAAS)

→ S/w as a service is a s/w delivery method. This method provides access to s/w & its func as a web-based services.

→ S/w as a service allows org to access business functionality at a cost typically less than paying for licensed application bcoz pricing of saas is based on monthly fees.

→ This service is hosted remotely users don't need to invest in additional hardware. The most common requirement for Saas is only internet conn & web browser.

→ Benefits

(a) Cost effective
(b) Easy administration
(c) Upgrades & security
(d) Easy to adopt
(e) Customization
(f) Work anywhere

→ Examples Of Saas.

Programming framework	Prog language
Active server pages	Common lang runtime
Java server pages	JSP
Rails.	Ruby

Q4 Explain S/w process improvement framework.

→ Process improvement means understanding exiting process & changing these processes to increase product quality, to reduce cost & or to reduce development time in order to accelarate project

→ Following are process attributes focusing on concept of process improvement

(a) Understandability : "Is process defination easy to understand?".
(b) Visibility : "Do process activities happen in such manner that progress of process is visible?" - This aspect is focused for visibility.
(c) Reliability : "Is process design in such a manner that process error are avoided before getting introduced in product as the product erron?"
(d) Supportibility : "To what extend case tools support process activities?".
(e) Robustness : "Will system continue to work even if some unexpected error occur?"
(f) Acceptability
(g) Rapidity
(h) Maintainability.