Module 4 : Q.B.

Q.1) Basic tasks req. for SCM:

→ i) Identification : Tracking multiple versions
to enable efficient changes.

ii) Version control : control changes before &
after release to customer.

iii) Change control : Authority to approve &
prioritize changes.

iv) Configuration auditing : Ensure changes
made properly.

v) Reporting : Tell others about changes
made.

Q2) Need of SCM:

→ i) It is an necessary tool for managing
complex s/w systems.

ii) Lack of SCM can cause serious problems
with reliability, uptime & the ability to
scale a system.

iii) It needs for multiple versions with
diff. os, budgetary or scheduling constraints

iv) It provides the tool to ensure that
changes are being properly implemented.

Q.3) Applications of SCM:

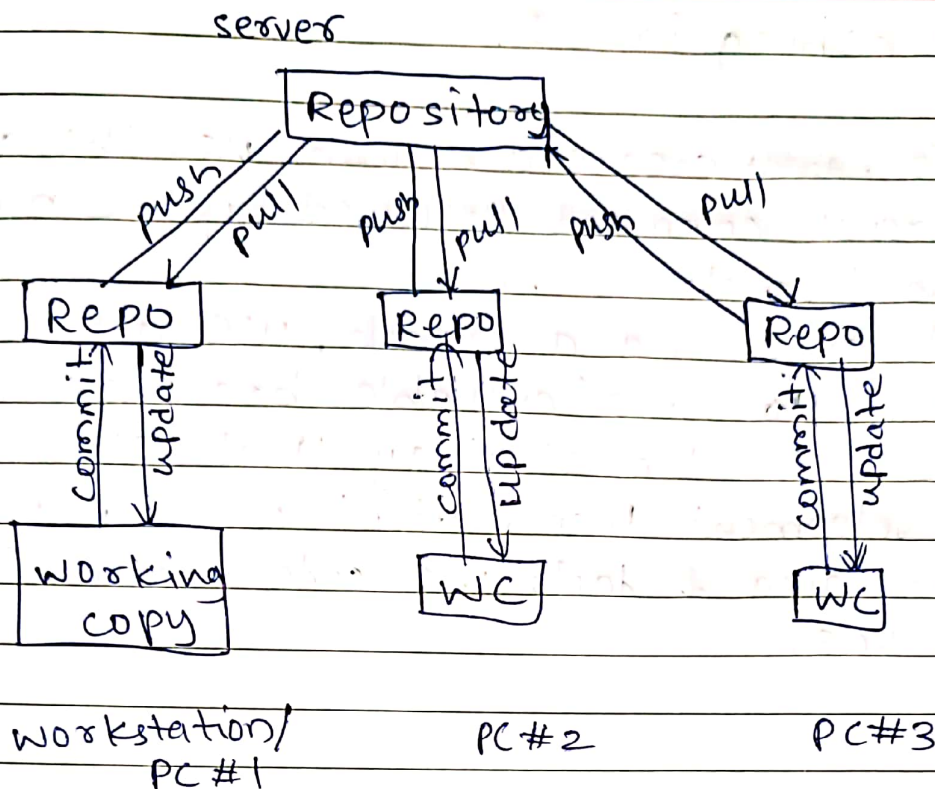→ i) To manage change between teams
ii) To connect to Jenkins (Maven)

Q.4) Features of version control.

→ i) Reliable
ii) Revert
iii) Meaningful versions.
iv) Review history
v) Not just for code
vi) Allow multiple people to work together.
vii) Merge.
viii) Track responsibility.
ix) Work in parallel.
x) Work in progress.

Q.5) Distributed version control with eg.
(DVCS)

→ i) In DVCS all repositories are created
equal, & it's upto user to assign then
~~equal~~ different roles.
ii) No single repository is authoritative.
iii) Data can be checked in & out ~~BB~~ from
any repository.
iv) eg. Git
Mercurial.

server

Distributed VCS.

Q.6) Basic steps req. for installat? of Github:

→ i) Log onto git-scm.com/downloads.
ii) Click on download for windows button.
iii) Run the downloaded executable files &
follow through till you finally install
Git.

Q.7) Basic features of Github.

→ i) Economical: v) Speed
ii) Non-linear.   vi) Robustness
iii) Snapshots.   vii) Integrity
iv) Distributed.   viii) Branching

Q.8) Branching in GIT.

→ i) To ~~carry~~ create a branch, use the git branch command followed by the name of the branch.

ii) After making a branch, use git branch again to view available branches.

iii) It is the strategy that s/w development teams adopt when writing, merging & deploying code when using a VCS.

Q.9)