se Assignment 1
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and the second principle of the second second
Q1 As the technology charges, the user requirements and
environment on which software is working also changes.
So every expanization is nanked based on the software
engineering > principles used by that organization.
-Inplementing and managing large size of software
programmer requires a specific method modularize the tasks
so that size of software can't have the software quality.
- software engineering provides rethodology for implementing
complex software system with high quality
- Without any standard method or management, it is
difficult to address defects in the product and correct them
as early as possible software engineering provides this
functionality when hotography day toll well
Extending the previous software to add new functionality
requires more cost in terms of time to develop and efforts
taken by people, as compare to the process.
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* Waterfall model- sequential and linear phase must be
it completed before Himonoget to adment one I wan 1440
· Clear and structured, suitable for projects with well
defred requirements mirinal changes & suitable scope
. Livited flexibility for changes, difficult to adapt to
evoling requirement.
months promises agheliand no bead nominary
* V-rade (Volidation and verification model: Parallel
development and testing approach Each development
The design of the state of the

phase is followed by a corresponding testing phase. Strong exphasis on validation and verification, clear docurrentation, reduces risk by identifying issues early. Firsted adaptability to changing requirements protential for late-stage errors discovery * Increnatal model - similar to iterative models, but the software is built in increments, each delivering specific furtionality. · Early delivery of functional nodules, reduced time to narket clos for better integration testing Requires careful planing to define increments
possible integration challenges Qz. - The CMM modeló application in software divelopment has sometimes been problematic. Applying multiple models that are not integrated within and across an organization would be worthy in training appraisals, and improvement activities. The capability materity model integration (CMMI) project was formed to sort out the problem of using nultiple models for software development processes, they the CHHI model has suspended the CHH nodel, though the CMM nodel continues to be a general theoritical process capability model used in public domains. -CHAI francork consists of a collection of computer programs based on knowledge, engineering, software orgineering, integrated product and process development and provider sourcing

phase is followed by a corresponding testing phase. · Strong enphasis on validation and verification, cleur docurrentation, reduces risk by identifying issues early. · Livited adaptability to changing requirements potential * Incremental model - Similar to iterative models, but the software is built in increments, each delivering specific furtionalty.

Early delivery of furctional nodules, reduced time to market allows for better integration testing.

Requires careful planning to define increments possible integration challenges Qz. - The CMM modeló application un software development has sometimes been problematie. Applying multiple models that are not integrated within and across an organization would be with in training appraisals, and improvement activities. The capability maturity model integration (CMMI) project was forred to sort out the problem of using multiple models for software development processes, thus the CHHI model has suspended the CHH nodel, though the CMM nodel continues to be a general theoritical process capability model used in public domains. CHAI frarework consists of a collection of computer programs based on knowledge, engineering, software orgineering, integrated product and process development and provider sourcing.

· Developed to bring order and structure to the software development process	Stages consists of grouping increments of an appearational software product with evolut				
It can accomodate changing requirement It is none ypopular	Improvement is required in the product It is less popular.				
Catesfall model and neverented modelo are a few examples of purspective process model	•				
Os Incremental model-When a project can be divided into smaller functional increments, allowing certain modules to be developed and delivered independently while ensuring integration & testing along the way					
Proceeding with full development.	to quickly produce a vorking and make requirements before				
· Outerfall model. When requirements are stable and changes are minimal, making it possible to plan and execute the project in a linear sequence of phases.					
Agle model- when flexibility and the project can be divided in frequent iterations, allowing for confi	to smaller increments with torrows feedback & changes.				

Q6. Vaterfell model is the first approach used in software
development process
. It is also called as classical life cycle model or linear
requestial redel.
· In water fell model any phase of development process begins
only of previous phase is completed.
- Agile software der describes an approach to software der under which requirements and oftware evolve through
under which requirements and stouch evolve through
the collaborative offert of sell- organizing and cross functional
the collaborative effort of self-organizing and cross functional tears and their austomer
- It advacation adaptive planning evalutionary development early
- It advocates adaptive planning, evalutionary clevelopment, early delivery and continual improvement, and it encourages
hail and Marilla rosses to along
rapid and flexible responses to change.
· The tern agile was popularized, in this context, by the
Marifesto for agile software dar.
Q7. (Waterfall
Development speed:
· Waterfall is a linear and sequential methodology where
each phase must be completed before nowing on the next
This can lead to longer development cycles.
. Metrics: Time taken for each phase (requirements, design,
I have to testing deplument).
development, testing, deployment).
- Adaptability to charge
- Adaptability to charge · Waterfall is less adaptable to charges in requirements due to
its rigid structure.
· Metrics Number of change requests, impact analysis line and
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depay caused by change request.

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