-	
0	what is the Rime objective of software enfinering. Ist out
	Several Rotadigms. Sumariae Perselective & specialized process
	models with diagrams
- AVR	Prime objective of Boffware engineering: - The Bine objective
	of software engineering is to create softwine that is remade,
	efficient, & usable-This means that the software should be thee
	efficient, & usable. This means that the software should be free of errors, Should use resources efficiently, & should be easy for
	Users to understand & use.
	1) water Pall: This is a traditional Software development toxess that
	follows a linex sequence of stells. the stell are typically: sequin
1	- went dethand gesian inflementation testing of contraction
	Requirements -> design - Development -> testing -> Development -> Maintance
	2) I terafice: This is a software development Process that inches
	repealed cycles of Planning, development, festing, & development
	Initial Regulirements -> Analysis Endesign
	- Planning Implementation -
	Development Testern
	alanation resting
	Agir: This is a software development methodology that emphasizes
	flexibity & collaboration.
	Summatise Perspective & specialized fracess models with
	diagram
	Perspective modeles focus on different aspects of the siw divide
	-ment boccss, such as the People involved, the activities remained
	Penlle-oriented models: These models focus on the roles &
	responsibilities of the realizations of the studentiment fracess.

world Dates iven System.

Object oriented OAd Hoc.

Product -oriented madels: These models focus on the Product. that one Produced during the SIW development Process

Specialized Process models are tailored to specific types of SIW development, such as embedded systems or web applications.

- · Embedded systems process models: These models case designed for the development of embedded systems, which are slw Systems that are embedded in how devices
- web applications Process models: These models are designed For the development web app, which are swall that are accessed over the internet.
- 2) Identity the umbrella activites in software engineering Process.;
  - 1) Software Project tracking & control: Track Progress egainst the Project Plan & take necessary action to maintain the site-
  - 2) For mal technical reviews: Assess engineering work Products to uncover & remove errors before they Propagate to the next activity or hase.
  - 3) SIW Puality a SSURance: Ensure that the 51w meets the requirements a is of high quality.
  - 4) SIW configuration management. Track & control changes to the SIW ensuring that the changes are managed. & tracked throughout the development Process.

- 5) Reusablity management: Identify & & use shu components, bedusing the cost & time of development.
- Brotect, reducing the preclihood of Problems occurring.
- what is unified process model in software engineering exhains a describe various phases of unified Process with real skotch to

3)

Ans

- -ment Process Franc work.
- > It is divided into four Phases: inceltion, Elaboration, construction & Granstion.
- Smaller eyeles of development that focus on a specific set of features or functionality.
- => The UP 95 Characterised by 3th emphasis on. Pterative & incremental development, architecture Centric design, & use case driven development.
  - Communication modelling

    Construction

    Construction

    Construction
  - , repulsement 3 one gather.
  - E the architecture of the system is designed.
- > The construction Phase is where the system is implemented a tested.
- => The Hansitton Plase is where the system as developed to Production & supported.

software engineering. Myth: soft wore development is a linear process MR Reality: software development is an Herative & in cremental from Myth: once the slip Ps development, it is Pinished. Reality: 31w is never Finished. It is constantly being uldaked & makingted to meet the changing needs of the usars. Myth: Slw engineer's are Just code monkeys. Reality: SIW, engineers are highly skilled Professionals who use their Knowledge of computer, Science, mathematics, se engineering to create slw. 5) Exticin the difference blw Personal & Team Process models. > Robsonal Rucess Model focuses on the individual slw engineer & their development Process . It Provides a set of activities & Practices that slw engineers can use to amprove their individual Productivity & Slw quality Team shu Process focused on the teams as a whole & their develolment Process Peatures Prevsonal Process Model Team SIW Process Focus Individual SIW Engineer Team ACTIVITES that improve indivi-Activities that improve oversall Activites - Und Productivity & She quality team Productity EcsIW Turky Practices Practices that helps Prodividual Slw Practicivel that help teamy engineer & follows the SDP activities follow the TSP activities ImProved ovorall team Improved individual Producity Benfits Productive & SIW E SIN quality Quality.

Briefly describe different software Myths & realitie.

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easons.

Analyse Verification & Validation?

ws we signification is the Process of Checking that the siw needs its

- => Validation is the Process of Checking that the slw meets the needs of the USEVS.
- > Verification & validation are comprementary activities, & they should Performed throughout the SIW development life cycle.
- Julification ensures that the slw is built correctly, while varidation ensures that the slw is built right.
- => The Specific te-chniques. that alle used for verification & unlidation will defend on the specific siw Project.
- -> There are no. of different techniques that can be used for verification Envalidation, including reviewes, walkthroughs, insteresting, esting, usability testing. En acceptance \*sting