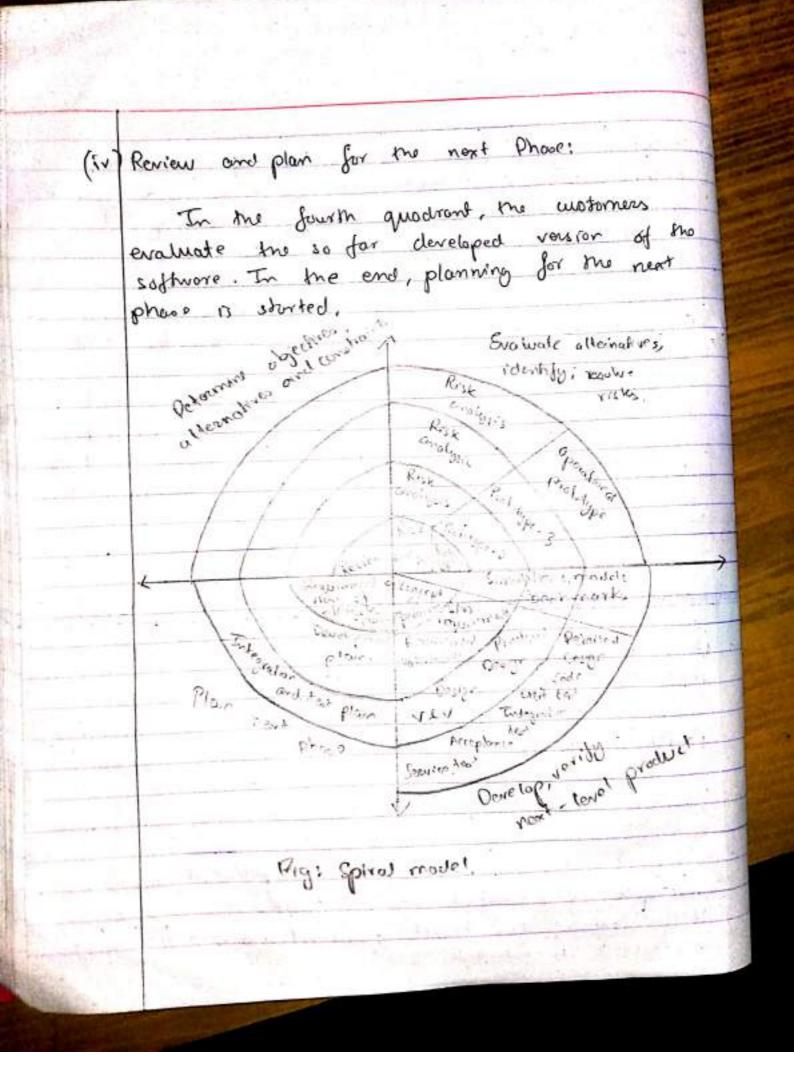


It can be defined as an interactive process for systems development in which users and analysis are inclose collaboration for Converting requirements to a working system most is continuously revised. It is a complex technique and to apply it successfully, debuiled knowledge of the SOLC is required. Sts Advantages of prototypes: .- Potential for changes to the system carry in The development. Opportunity to stop developing a non-working - Possibility of developing system that closely-addresses users requirements and expectations It's disadvantages are + Probatyping is difficult to manage Increase cost i

(2)	what are no Phases of RAD?
Ano	DAG LEGACH TOOK CANOT DOKEDON
	dere copment process some of
	ony specific planning.
	The phaces of RAO are as follows
1	the process of
(1)	5
	Requirements planning
	Involves identifying and analyzing project objectives
37	and requirements.
-	- Was in a south flow
	establish a clear understanding of the system's scape
	and purpose.
	ore parts
5217	Usa Darrori
(1)	The development team creates a prototype or mark-up
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
-	o actively engly
	to ensure the design meets their empertations and needs
	to ensure the design thech
-	) Construction
-60	The construction phase is where the actual development
	of me software takes place.
	Developers utilize the feedback received during the
	Developers utilize the feedback received south opphischer, usen design phase to rapidly build the application, prioritizing the delivery of working features,
	Orioribizing the delirery

(V) Cutner The fully functional system is Moravyhly tested, integrated, and deployed to the production environ mande This phase involves transitioning from the development environment to the live environment, enouring the system is stable and ready for end voers. Corotractor Fig! Phoses of RAD.

(3) What are the major activities of spiral model? And Spiral model is a combination of iderative development process model and sequential linear development model 1.e me waterfall model with a very high emphasis or risk analysis. The major activities of spiral mode louis (i) Objectives determination and identify atternative whites. - Requirements are gathered from the customers and me objectives are identified, elaborated, and analyzed at the start of every phose. Then alternative solutions possible for the phase are proposed in this quadrand. (ii) Identify and resolve visks. - During the second quadrant all the possible solutions are evaluated to select the best possible solution Then the risks associated with that eduction is identified and the risks are resolved using the boot pussible strategy. At the end of this quadrons, Prototype is built for the best possible solution (iii) Develop next verifor of me Product - During the third quadrant, the identified features are developed and verified through teating. At the end of the shird quadrant, the next version of the settingers is available.



(4) Explain what is meant by Agile & Methodologia. Ans. Agile meshodo logies challenge conventional engineeringbored approaches by acknowledging the unique nature of system / software development compared to avil engineering. System/ softwore requirements one less defined, and the development process is fluid and up unpredictable. The core principles of Agile emphasize adoptability over predictability, prioritizing the importance of people over rigidly defined roles. Agrile promotes self-adoptive processes that evolve as In software is developed and reviewed by project participants. Agilo is particularly well-suited for project with uncertain requirements. dynamic or The active involvement of engaged euphomore essential for the success of Agilo projects. The three key principles are-- Adaptive rather than paredictive - Emphasize people ruther than rules. - self-adoptive processes, on software is developed, the process used should be refined and improved of course after reviewed by people working on he (9) What is extreme Programming?.
Ans Entreme Programming (XP) is an agile software development framework mot arms to produce higher quality coffware, and higher quality of life for the development team! \*P 13 hrs most specific of the agile frommorks regarding appropriate engineering practices for software development. When Applicable. Dynamically changing enfhrore requirements. Risks caused by fixed fine projects using new technology. - Small, co-located entended development team - The technology you are voing allows for automated unit and functional tooks. (8) When would you use Agillo Memodologies Us Track hond Methodologies to System development? Ans Agile An methodologies are used instead of bradistronal methodologies in cyclon development in me following situations: (i) Unproductuble or dynamic requirements. (ii) Responsible and motivate & developers · Customers who under stand the process and unil get involved.