ID: 18 DC 5007

NAME: RUDRA BARAD

SUB : SE

D11.

UNIT TEST In 100 26/02/2021

classmate

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Software engineering is a layered technology. Any engineering approach (including sE) must nest on organizational commitment to quality. Total quality management, 6 sigma & similar philosophers foster a continous process improvent culture 8 it is this culture that ultimately leads to the development of increasing more effective approaches to se

nother coluit took or balanterine and a TOOLS and not look METHODS PROCESS h deilacter at pair A QUALITY FOLUS

- The bedrock that supports se is a quality focus
- The foundation for se is the process layer. The SE process is the glue that holds that the technology layers together & enables rational & timely development of computer software The software process forms the basis for management control of software project R establish the context in which technical methods one applied work products one produced, milestone one established, quality is ensured 8 change is properly managed
 - software Engineering method provide the technical now to's for building software. Methods encompass a broad array of tasks that include communication nequinement analysis, design, modelling, program

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construction, testing & support. SE methods onely on a set of basic principles that govern each area of technology & include modelling activities and other descriptive techniques.

Software engineering tools provide automated on semi-automated suppost for the methods. When tools are integrated so that information areated by one tool can be used by another, a system for the support of software development, called computer-aided software engineering is established.

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B 12.	We can use waterfall model in following situations
	(1) This model is used only when the requirements are very well kown, clear & fixed. (11) Product defination is stable (111) Technology is understood (112) The project is short (12) Ample resources with required expertise are available (13) There are no ambiguous requirements.
→	SPIRAL MODEL is the nisk-based software develope thent
-	process model
	Humilia of additional planning
	SECURITARIZA /
	Communication Modeling Deployment
	Construction
	ADVANTAGES OF SPIRAL MODEL
	Ly Risk HANDLING - projects with many unknown nisk
	that one as the development proceed, in that case
	spiral model is best.
	4 Grood for large products - It is necommended to use
	the spinal model in large 8 complex projects
	Ly Flexibility in nequinements - change nequest in the
	neauinements at later phase can be incorporated
	accurately by using this model
	13 customen satisfaction - customen can be seen that the

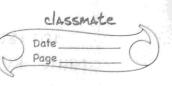
	development of the product at the early phase of software development.
	rome and out out a place been of laborar side in
	DISADVANTAGES OF SPIRAL MODEL & HOLD
	Adol2 si naitanilsk farihili isi
	1> complex - the spinal model is much more complex than other sold models
he found	Ly EXPENSIVE - It is not suitable for small projects
	as it is expensive
	4 Too much dependable on nisk analysis
la sola d	4 Difficulty in time management - as number of
	phases is unknown at the stant of priorect
	so time estimation is difficult.
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A technical project nequines diverse kills for example a high scale web app depends on designers, front-end, back-end deus, codens, Deurops managens, system admins and an developens, etc-Thus, a software team operates quite differently as compared to a team in any other field. SOFTWARE DEVELOPER CHARACTERISTICS TECHNICAL SKILL - SE while clean, logical, high-quality code using test-driven development & agile rusquismente 18 + Stanspylactices assess 19 or squist fill (in tooils and nicols differ ship of ships (11) COMPUTER SCIENCE FUNDAMENTALS - developers have a strong gasp of computer science fundamentals. THE ABILITY TO SELF MANAGE - they may need to work on (111) maken-led knms. They must be focused, self dinecked and good at managing work. A CONSULTANT MINDSET - goal is to create product which will provide max value for the client's investment. To accomplish this, makers develop a consultant mindset that leds us delve into business context & closely manage our time.



(V) CURIOSTY & LOVE OF LEFTRHINGS - developers are required to be fast learners who can quickly examp into new toolset on language

(VI) A PASSION FOR DEVELOPMENT - developers need to be

passionet about doing neally good work

to refine practices.

(VII) STRONG COMMUNICATION SKILLS - as consultants on small teams so work closely with clients & their users -lewrning, exploring, etc.

(VIII) THE ABILITY TO BE GOOD TEAM MEMBER - SE developers work side-by-side with designers, clients & other developers; discussing our work & managing constant flow of feedback.

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