SE Assignant 1

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I a) Recognizing the Software veguirements is a record step in the software engineering process, as it sets the foundation for the entire development lifecycle & significantly impacts the success of a project. b) It helps in ensuring iderity of project scope, customer satisfaction effective communication, risk mitigation, resource allocation, testing & c) Implementation & managing the large size of software, programmer requires a specific method modularize the tasks so that software can't harm the software quality. d) Recognizing stequitements allows projects' manager to allocate resources more effectively, leading to better planning, minimizing by addressing the visks erlien. e) Traceability ensures that each component of the software is linked back to specific requirements, aiding in quality assurance, regulatory compliance & understanding the rationale behind design & implementation de cisions. of Recognizing software requirements is pirotal in ensuring that a seftime project processes smoothly, meets user expectations, avoids rostly snework & gives high-quality results. of It serves as the foundation upon which all subsequent software development activities are built.

ms - 2J

is Waterfall Model:

a) Sequential & Linear approach

b) Each phase must be completed before next begins.

c) Emphasises comprehensive documentation.

d) Limited flexibility to accomodate changes

ii > Agile method

a) Frerative & incremental approach

b) Emphasises collaborativeness, adaptability & customer feedback.

a) Welomes changes in requirements ever late in project.

d) Eg: scrum, karban, extreme programming.

iii > Incremental model

a) divides software into modules or components

b) each module is developed of tested separately

a) allows for every delivery of partial functionality

Ans-3 J a) The corn model has been problematic at itimes:

5) By applying multiple models that are not integrated within &

across an organisation.

a) The comm integration project was formed to sout out the problems of using multiple models for software development process

d) amm integration consists of computer programs

e) It has 3 groups:

cmmI for development

CMMI for service

cmm I for acqueition

1) Prescriptive Process Model i) It can accommodate changing requirement	Evolutionary Process Model	
i) It was accomposate changing	In rovement is requirement.	
requirement		
	17 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	
ii) It is nove popular	It is less popular	
ii > It is linear	It is non-linear	
The second of th	A STATE OF THE STA	
iv) The complexity of error increases	The complexity of envior is dow the package enables user to detect error earlier in the process.	
because of the nature of model.	package enables user to detect error	
	earlier in the process.	
A CONTRACT OF THE CONTRACT OF		
v> Eg: Waterfall, Incremental	Scrum, Spinal, RAD M	
	A subject to the little of the	
	Transferrit 1975 - William III	
a) Incremental model: projet con	be divided into smaller functional	
a) Incremental model: projet can increments. Implementation and	testing can be done along.	
7.8%		
5) Waterfall model: requirements	the project in a linear sequence	
making it possible to execute	the project in a linear sequence	
rc) Agile model: when flexibility	, & adaptibility are resultial & the	
project can be dirided in	of adaptibility are resultial & the bo smaller increments with frequent	
iteratione.		
	10年902	

Ans-6J Waterfall of Agile model:

a) Progress tracking

is waterfall measures progress based on completed phases. ii) agile measure progress within interations using burn-down charts.

b) Hexibility: waterfall is less adaptable agile is more adaptable

a) Planning voterfall focuses on comprehensive upfront planning agile emphroises adaptive planning & floribility

d) Feedback waterfalt has limited feedback.
agile promotes regular feedback.

Ja) Derelopment speed marks

B) waterfall → slower derelopment

ic) agile - faster & varied derdeprients.

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Jeaturas	Daterfall	Incremenatal	Prototyping	Spiral
leg. Spec	well understood	not well under stood	not well understoad	well understood
understanding vieguirements	vell under	not well under stood	not well	well understood
resisable	пъ	yes	ges	yes
visk analysis	Seginaing	no analysis	no arabysis	yes
user involve	beginning	internediate	high	high .
time	dong	Short	Short	depends on produc
llowbility	vigid	Jes	hig L	high
enpertise	vigil	high	medium	high
cost	Pyes	yes	no	ges.