	SIES Graduate School of Technology	Subject:
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	Assignment No	·· Date · / /
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17.0	the last second of the	
A	Explain spiral process model with exen	ysle and diagram.
ACLINO.	The spiral model ineas peroposed by Barry	Bochen in 1986.
3.	It is an iterative and sisk-driven soft	sare development process
3.	The model is represented as a spiral, where	each doop of the
	spiral indicates one phase of the software.	e
ч.	of phases of spiral Model are:	A Company and the control of the con
	O Communication - Collect vieguisements and int	teract with customer.
	Planning - Istimate retources, Schedule, and	peroject goals.
	e redeling - veryoun analysis and design of	the system.
	construction - coding, testing, and presoducing	a working software build.
	Deployment - Deliver to customer, collect feed be	rek, and plan for next gicle.
	Nonning	
3.5		de 2h techniq Shall d
	Communication	d platera
	Communication /	togen ny
		dispose higher
		despiration sign & a
	lo	nstruction
		Laura har markey
	Deployment.	nt x tronoup 86 T. A
	0 < 0 A1 0 0	and the large
	Spiral Model.	
	4.1	
<u>5,</u>	In successive loop is a more complete and	erefined byotem.
0.	Risk analysis is a bey feature, making it	suitable for large
	and complete pergette.	1111 at with configuration
	Example: Consider developing on E commerce applica	utton
	First loop: Basic login and product catalog featu	प्रेंच्छ .
	Second loop: Add shopping cast and secure payment Third loop: Add order tracking and personalized us Final loop: Deploy full system and gather customer.	l gaternay.
	Final loop: Deploy full the ten and nother milder	feel hack.
	and the state of t	feed back. Page No. /

		and the second distribution of the second se
ष्टर	Compare Waterfall and Prototype Model.	F. 0
	AND SOLID AND AND AND AND AND AND AND AND AND AN	Ans-1.
Ans-	Waterfall Model Prototype Model.	JAM8- 1.
	Follows a linear and sequential Follows an interestive approach	2.
	approach. based on building perototypes.	0
2	Requirements must be fixed at Requirements are erefined	
	the beginning. aradually through austomer feedback	
3.	Rigid model - difficult to make Heribe model - allows whanges	July T
	ichanges once a phase is completed after feedback.	
ų,	Customer involvement is low, only customer involvement is high,	2
5 410	at the start and end. throughout the development.	
. 5.	like are not handled effectively. Risks are oreduced by using prototypes	3)
	and early validation.	(E3),
6.	tinest peroduct is delivered only at Working prototypes are available	10 81
	The end. early.	@ R
7.	Best for small, simple, and well- Best for large, complexe, or defined projects.  Letined projects.	- Co
	defined projects. unclear projects.	8
0.51	0.1= 2.01	10
Δ.	Plus de la	11/2
Jans-1.	Define Software Engineering. Software Engineering is the application of engineering perinciples to software development.	3
0.	30 thouse development.	(4)
	It perovides a systematic, disciplined, and structured approach to software.	(D) &
3.	The goal is to Levelop reliable, efficient, and cart-reffective software	2
	systems.	2
h.		No are by
	It covers the entire software life cycle-from erequirement analysis to maintenance.	3)
THE RESERVE OF THE PARTY OF THE	According to IEEE, it is,	
	"The application of a systematic, disciplined, quantifiable approach	
	to the development, operation, and maintenance of software."	
	policy to Transport dated to the colored by the sold to the	1
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24]		
ths-1.	List and explain requirement engineering to Requirement inginceoing is the process of olefin maintaining software requirements. The main tasks are:	ing, documenting, and
0.	The said talks are	citisonal maladai (1)
0	Femiliate Study.	Landamidak ar
	Transibility Study.  Analyzes whether the proposed system is to and economically prasible.	echnically, operationally
- بياريد	Types: D'Sechnical feasibility - wheeks if orequire	ed technology and
steer	2) Operational of excibility - checkes if the system problems and meet customer needs.	can solve business
(73)	3) Geomonie feasibility - checks if the system is quotitable.	is cost-effective and
	of the real Company ( Car) Street last the Car) . Cate	The state of the s
0	Requirement Ulicitation and Analysis.	Citt all maraket
t	Requirement Ulicitation and Analysis. Collecting enequirements from stockeholders lusers Steps include:	, oliente, managers).
	D Requirements gathering - discussion with whichts	and end users:
-63-	2) Organizing requirements - periositize and are	range siegnisements.
169	3) Negotiation and discussion- resolve conflicts, else i) Documentation- record functional and non- fu	orty ambiguous erequirements.
	a) Downentation- record functional and non- fu	netional requirements.
	ONE LOSE.	Control Marie Co.
0	Loftroare Requirement apentication.	A STATE OF A STATE OF A
19.33	i) formal document prepared by the analyst aft	ter suggestement collection.
	1) Formal document prepared by the analyst aft 2) Converts instances's informal language into tec understandable by the development team.	hne at language
12 15 5 10 3	3) Includes functional and non-functional ere	and the second
	3) Includes functional and non-functional see	The state of the s
0	Requirement Walidation.	Astanbakakas
1 1/1/1	Regissement Validation.  i) Insures that documented originaments are feasible.	correct, complete, and
	2) Checks for ambiguity, peracticality, and alia	nment with customer woods.

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