O Instruction: Instruction that when executed provided desired features, twoctions and personnance.

Dota structure: Data structure that enable the programs to adequetely manipulate Information.

3 Documentation: Documentation that describes the operation and use of programs.

Explain Software reharacteristics principed et th.

Desoftware is developed on engineered, it is not manufactured in the classical sense!

manufacture means that to make things, would on a large scale, with took and either physical labor or machinary.

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- · software development and handware manufacturing are fundamentally different.
- · for hardware, manufacturing phonse can introduce quality problems that are non-existent for software

6 software does not meanout

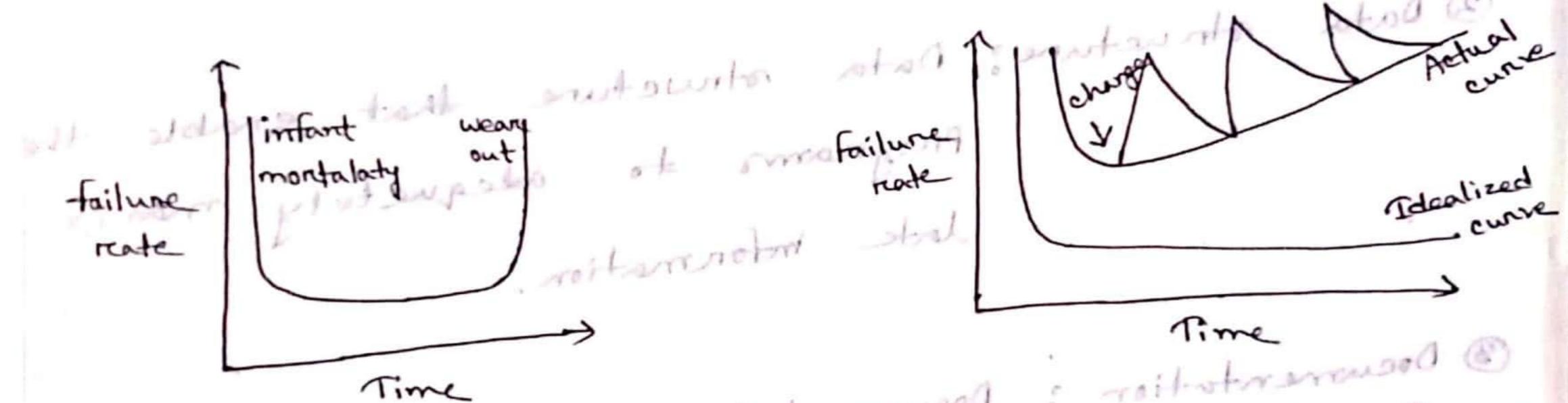


fig: Failure curve for hardware fig: failure curve for software

- . It is also called the 'bath-tub curve",
- . At the beginning of the life of handware it shows high failure rate as it contains many defects.

. By the time, the manufacturer on designers repair there depects and it the comes idealized on into steady state and continues.

· properties no noded faring Na

- As time paraer, toilure not rivers again; shis may be coursed by evernive temperature, dust improper would and no on, and at one time it become totally unwable. This rotate is wear out rotate.
- · Software does not a wear out but lit does deterio-
- @Atthough the industry is moving toward component based assembly, most software continues to be awatern built.
 - · There components are remable and in handworth component neuse is common to test set to entire print
 - · In roftware world, it is name.
 - nented so that it som be reused in many different programs.

nothern of sania are man

strouter agrant purch

Handware Software

and distribution still

1) It is manufactured. O'It is developed on engi-. Id neered. Billotot arroad ti

3 It does wear out.

2) It dies deternionate

3 14 build wring pre-struct & It build based on spetured electronics components, citie components ruch as x86 on x69.

Der derigned anchitecture so Decompletely new derign that it is relatively simple to it is relatively complex.

) Handware failure is nondon & e-11

(5) Handware failure is nandom. (5) Software failure is rys-.
Handware does have increa tematic. Software does not
sing failure at the last stage, have an increasing failure , anon mateli blien arouthor ret.

@Hardware in physical in to Goftware in togical in ad nacture.

Place electrically through network.

- (1) If tandmane is damaged, (1) If nothware is damaged.

 It he replaced with new its backup copy can be one.

 One.
- Thenducane is not affected @ software is affected by by computer viruser. computer viruser.
- 1) Ensamples: Keyboard, Mouse, (1) Enamples: MS word, Excel,
 Moritor, cpu,
 Power point,
 Printer etc.
 Mysgl etc.
- Degrey software: The definition of legacy software is an old and outdated program that is still performing useful job for community.

An example of legacy software is a factory's computer system running on on old rension of windows because there is not a need to invest in the most updated software.

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D Why must software change? And the break of godsond of wir this bondant of H

The software must be adopted to meet the reeds of new computing environments on technology.

1) The software must be enhanced to implement new business requirements. , ugo motival

3 The software must be extended to make it interoperable with more modern systems or database.

1) The software must it be re-anchitected to make it viable, withinkter network environment.

D'Umbrella activitiesono noi dot

software process. grimmen matoria naturano

of mumber of activities ?

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- 1) Software project tracking and control:

 anners progress against the plan and take
 action to maintain the schedule.
- and quality.
- Defines and conduct activities to ensure quality.
- This includes reviewing the techniques that has been used in the project.
 - Measurements

 This will include all the measurement of every aspects of the software project.
 - © software configuration management; manage the effects of change throughout the software process.

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7	Reusability	manageme	nto	art.	100101	15)	mant to
	Reuse the	functions	of	so-ftu	une	ng in	another
	software.	J. had m	- the	mint de	0.77	ot	reroitos

Work product preparation and productions

create work products such as models documentistign logs, forms and lists.

Chapter 20 ptilous enouted (6)

Pridecistor Model

- Process framework: A framework for the activities, actions, tasks that are required to build high quality
 - It is a roadmap that telps to create a timely, thigh quality product on software.
 - · Ano called Softmane Development Life Cycle. (SDDCC)

, orasong sauthor