

SE Solⁿ
(ECE 4th)

(a) Constructive Cost estimation Model.

(b) Function point =

It's a unit of measurement to express the amount of business functionality, an information system provide to a user. It measures S/W size.

(c) S/W Requirement Specification is a document that capture complete description about the syst.

(d) Testing is a functionality process to evaluate functionality of a S/W applⁿ.

(e) In S/W testing, V and V are the processes to check whether the S/W syst. meets the specification.

Validation checks customer needs.
Verification " S/W "

3 =) $E = a_1 (KLOC)^{b_1}$
 $D = c_1 (E)^{d_1}$

Per organe.

$E = 2.4 (100)^{1.05} = 302.14 Pm$

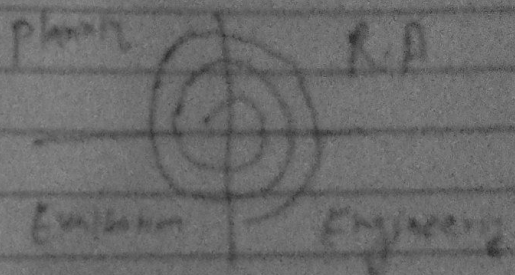
$D = 2.5 (302.14)^{0.38} = 21.9 m \sqrt{2}$

Ans => SDLC => SW development life cycle
Phases are =>

- (a) Req. Gathering and Analysis
- (b) Design
- (c) implementation or coding
- (d) Testing
- (e) Deployment
- (f) Maintenance

Spiral Model followed in the iterations
Loops in Spiral Model represent the phases of SDLC i.e.

- (a) planning
- (b) Risk Analysis
- (c) Engineering
- (d) Evaluation



Ans => UML => Unified Modeling Lang.

- > Not a programming lang, it's a pictorial lang.
- > Provides the blueprint of a sys
- > It having Structural diag and Behavioural diag.

Str. diag. Lu -> Class diag, Object diag, Component diag, Deployment diag.

Behavior diag Lu -> Use case diag, State diag, Activity diag, Interaction diag, etc.

Ans 5 => S/W Crisis is a term used in the early days of computing science for the difficulty of writing useful codes or efficient programs in the required time.

It happened due to rapid increase in computer power and complexity of the problems.
eg) 42K problem.