#### 7.

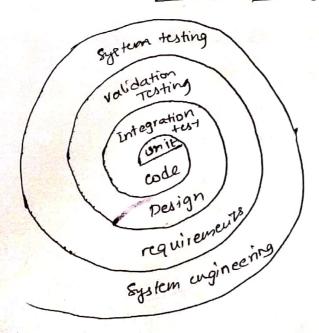
# Software Testing Strategies

- describe the steps to be conducted
- -effort, time and resources will be nequired
- tut planning, test case design, fast execution, and resultant data collection & evaluation
- reasonable planning and management tracking as project progresses
- · Testing-process intent of finding errors prior to delivery to the end user

# strategic Approach to software testing

- · To perform effective testing -technical reviews
- · Testing begins at the component level
- · Different testing techniques.
- · Testing is conducted by independent group
- . Testing and debugging one different activities

#### software Testing Strategy



### a. capability Maturity model Integration

that is predicated on a set of system and software engineering capabilities that should be present as organizations reach different levels of process capability and maturity.

in two different ways was a continuous model by as a staged model

#### levels of cmmi

Each process area is formally arrested against specific goals and practices and is rated according to following capability levels.

institution of the

Level 0: Incomplete

Level 1: - performed

Level 2: managed

Level 3: Defined

level 4: a nantitatively managed

Level T: optimized

The cmm1 defines each process area in terms of specific goals and apecific practices required to acheive these goals. Specific goals establish the characteristics that must exist if the activities implied by a process area are to be effective. Specific practices refine a goal into a set of process - related activities.

CMMI also defines a set of 5 generic goals (Ga) (GP)The Generic goals and practices for the project planning process area are: Acheire specific goals

GP 1.1 perform Rose practices

Institutionalize a Managed process <u>G</u>G 2 GP 2.1 Establish an organisation policy

e-2 plan the process

2.3 provide resources

2.4 Assign responsibility

2.5 Train people

2-6 Manage Configuration

2.7 Identify and involve relevantstateholders

Institutionalize a Defined process

( Establish a defined process GP 3.1

collect improvement information

GG 4 Institutionalize a Quantitatively Managed process

fitablish a quantitative objectives for the processing

stabilize Jubprocess performance 14.2

GGT Institutionalize an optimizing process

GP J-1 Ensure continuous process improvement

5.2 correct root come of problems

listing in the state of

## specific goals of mm1

- 1) Establish Estimates
- 2) Develop a project plan
- obtain commitment to the plan