SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT. Name: Harsh Agrawal CSE SEM-6th Shift-2 Rollno-45 Section-B under the guidance of Heena Agrawal Moiany. Software Engineering TA. Part Topic: - Alpha, Bela & Acceptance Testing. Acceptance testing: - 9t is the final level Software testing. The main aim of this testing is to determine working process of System by satisfying the required Specification and it is acceptable for delivery. It is also known as en user testing. Types of acceptance testing:-Wer acceptance testing 2. Business acceptance testing 3. Contract acceptance testin 4. Regulation acceptance testing 5. Operational acceptance testing 6. Alpha testing Bela testing Acceptance testing also works under Black box testing.

Alpha Bela 2 Acceptance testing. Alpha testing is a software testing performed to identify bugs before releasing the product to real users or to public. Alpha testing is one of the user acceptance testing. -> It is called alpha testing because it is done early on near the end of the development of software. It is Commonly performed by homested software engineers or quality -> It is the last-testing stage before the software is released into the real world objective: -> 1. The objective of alpha testing is to refine the software product by finding the bugs that were not discovered during the previous tests: -> 29t refines the software product by fixing the bugs. It involves the customes dieps in the process of development. >3. To give better Insignt Into Softwares reliability at the Early stage of development Advantages: -1. Better susjets about the software realibility at its early stage 2 9t reduces delivery time to market 3 free up the team for other project 4. Early feedbacks improves software quality

* Moses: - There are two phases:-1st phase: - It is done by Inhouse developers or software engineers. They either use hardware--aided debuggers or debugger software. The ain is to catch bug quickly usually here, tester comes across a lot of bugs, crashes, missing features, and does. and phase: - The second phase is done by Software quality assurance staff for additional testing in an environment. It includes black box & white box testing. Beta Testing: Bela testing is performed by real users of the software application in a real environment Bela testing is a type of user acceptance testing. Belå version of software whose feedback is needed, is released to a limited number of end users of product to get a feedback of product quality. Characteristics:-> 1. It is performed by clients or users who are not employee of the Company -> 2. Realibity, security & robust-ness are checked during bela testing. > 3. It commonly uses black box testing

> 4. 9t is Carried out in users location

75. 91 doesn't require lab on testing environ-

Advantages: - 1. Reduus prodult-failure vist Nia Customer Validation 2. It allows company to test post-lunch 3. 9t Improves product quality via customer 4. Cost effective, increases goodwill with ustomers, increase customer satisfaction. Criteria: - l' sign off downent on alpha testing.

2. Bela vusion of software should be 3. Poul to capture real time faults. * Acceptance testing: 4 method of software testing where a System is tested for acceptability. The major aim of this tent is to evalual the Compliance of the system with the business requirements and assess whether it is acceptable for delivery or notuse of Acceptance testing: -1. To find the defects missed during the functional testing phase. 2. How well the product is developed 3 feedback help in improving the product performance and user experience. 4. Minimise or eliminate the Issues arising from the production.

Alpha testing Process followed Review design specific during alpha requirement testing > Develope Comprehensite tert- case 2 plan Execute Terr plans log defects Relest Types of Bela testing: -Public focused Tradational Post-Technical Bela Bela Bela release Belà testing testing testing Bela testing testing Acceptance testing System testing lutegration testing unit testing. Acceptance testing is the last-phase of software testing Performed after system testing and before making system avilable for actual use. txample:-During the process of manufacturing a mobile phone - All these parts will undergo unit testing.

- After unit testing they undergo lutegration
testing - later System testing will be performed.
- finally acceptance testing will be performed before it is out for delivery. Calculation: The no. of defects (x) found at testing with M X = N(1-(1-4)n). N = total no. of detected problems. L= proportion of defects discovered.

Typical value of 1 is 81%

Bela testing results from the case study

X = 39 defects L= 97% n= 5 users.

X = N(1-(1-4)n) 39 = N (1-(1-97)5) 39 = N(1-3/10×5) 39 = N(1-15)N = 3900 = 46 Total no of detected problems! - 46.