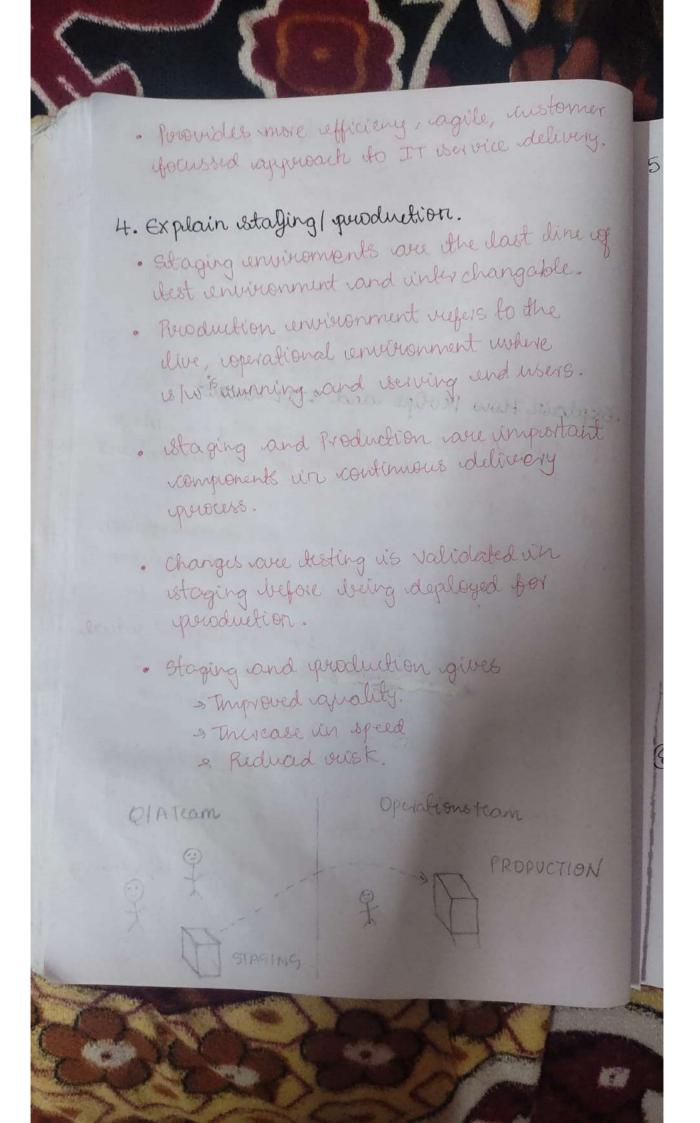
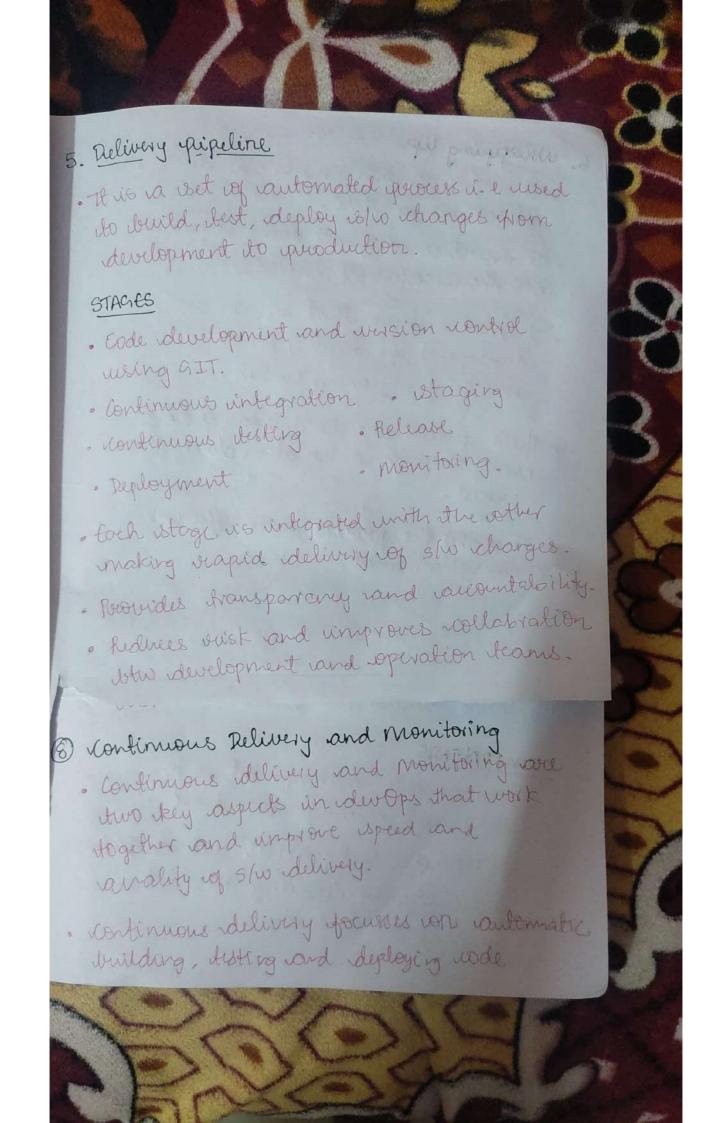
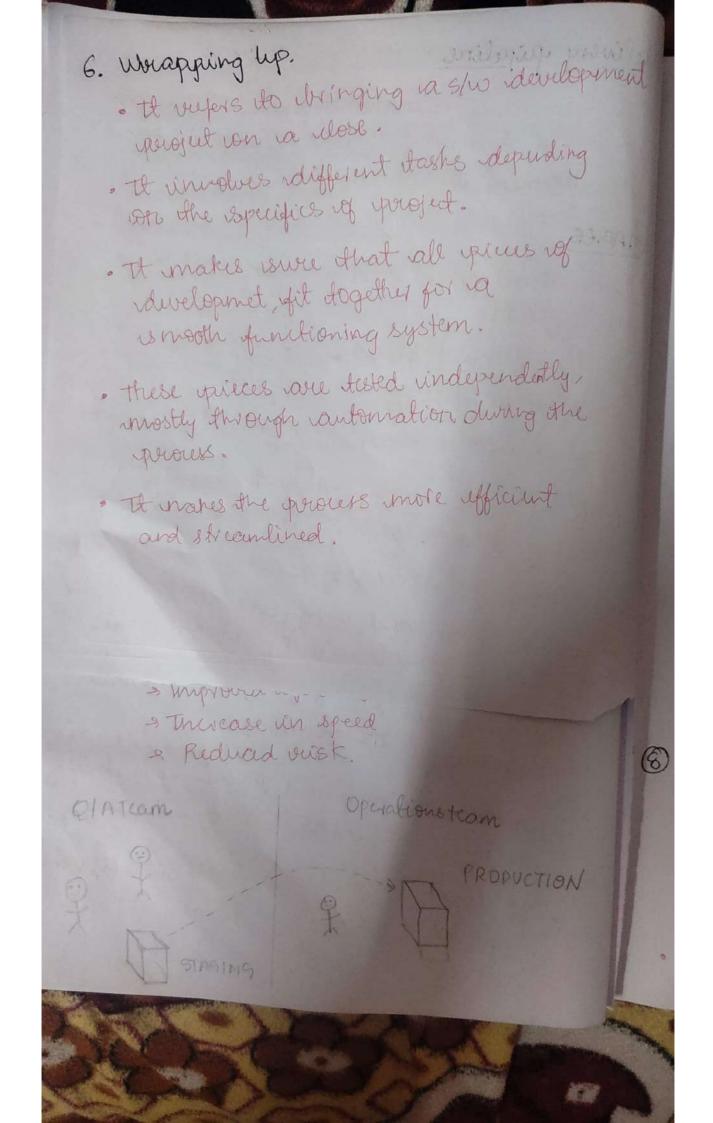
- 3. Explain How Devolps and ITIL Mobrist.
 - . Revoges and ITIL were unutually exclusive and were cusually considered has alternatives to each other.
 - neworks foursels for communication between doublepment and operations team to deliver by with high quality.
 - ITIL C Information Technology inprastructure sibrary is a aframework for IT service management that manages IT service rapproach in ITIL systematically
 - · Combing Revops vand ITIL van bring significant befrefits to a company.
 - of leads to vuduced inefficiences, iscority gapt and ineverses delivery speed and efficiency.







1 Identifying Bottlenecks. . It is a priocess of identifying varias in pipeline inhere work is not flowing ismoothly, causing delays or islowing down in delivery process. Techniques cio Metrico and monitoring, by wellecting and analoging melvice it he build time, test time, depiloryment time. cii) Process imapping, by identifying areas where work is getting slow 2013 Stuck. ciii) Fuedbook from Jean members to get the ringights of the gripeline. - By using the above tuhniques, it helps. ingrove work flow, increase speed, reduce Just. (8) Continuous Relivery and Monitoring · Continuous delivery and monitoring are two key aspects in devops that work stogether and improve ispeed and rainality of s/w delivery. · continuous delivery focusous con cautematic building, disting and deploying wode

ichanges to peroduction as show is they are ready. The goal is to reduce the Arme and improve respect in delivery - Continuous impriforing videntify and vessolves grobben rautkly through automated instituting fools and clagging systems. It vieduces downtime, vuselves itsmus iamickly.

. It allows organizations to form a feedbach look tie both from Continuous monitoring & idelivery) to improve delivery pipeline a peroduction system.

(10

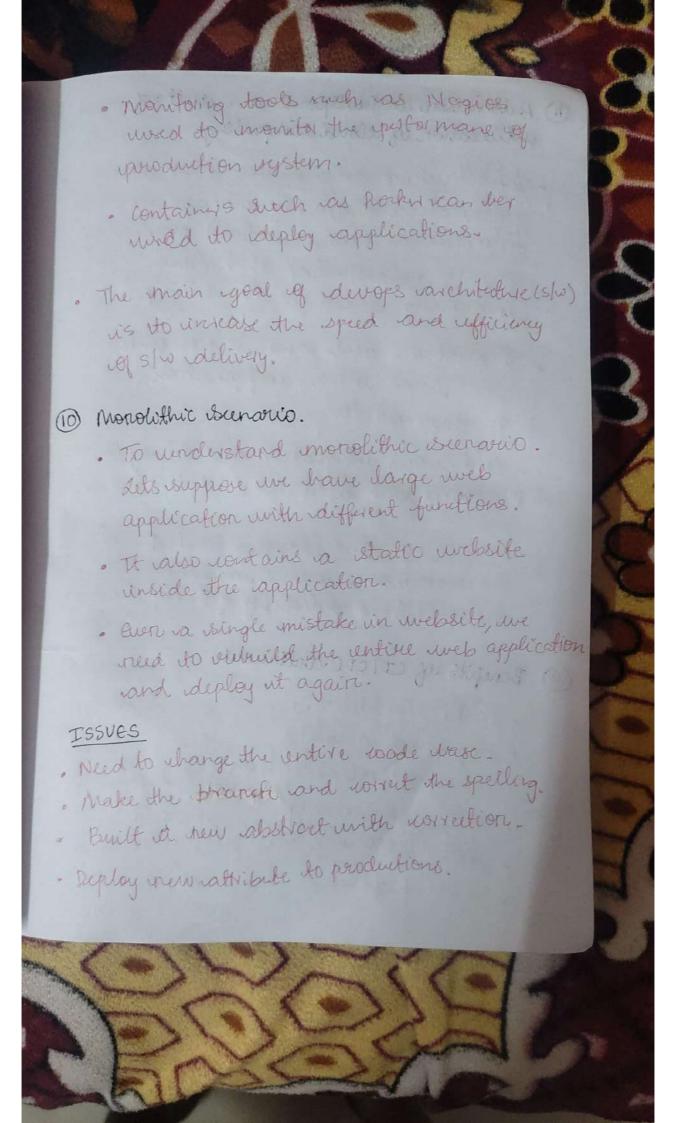
1 Devaps s/w architecture.

. It orgers to the design and organization up tools, system and processes used to impleret devops pratices.

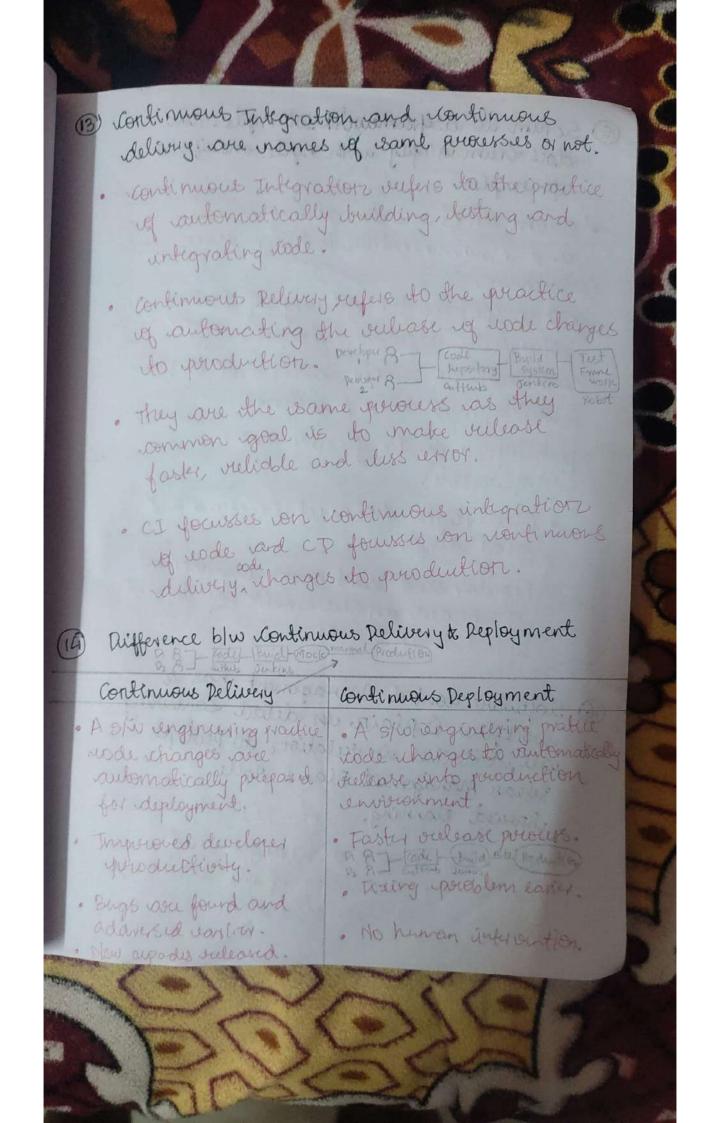
COMPONENTS

- Finally boxon president or years. . SOURCE rode management is to store and manage node base.
- · Continuous Integration such as Jerhas to continue building, testing & diplogment of code.

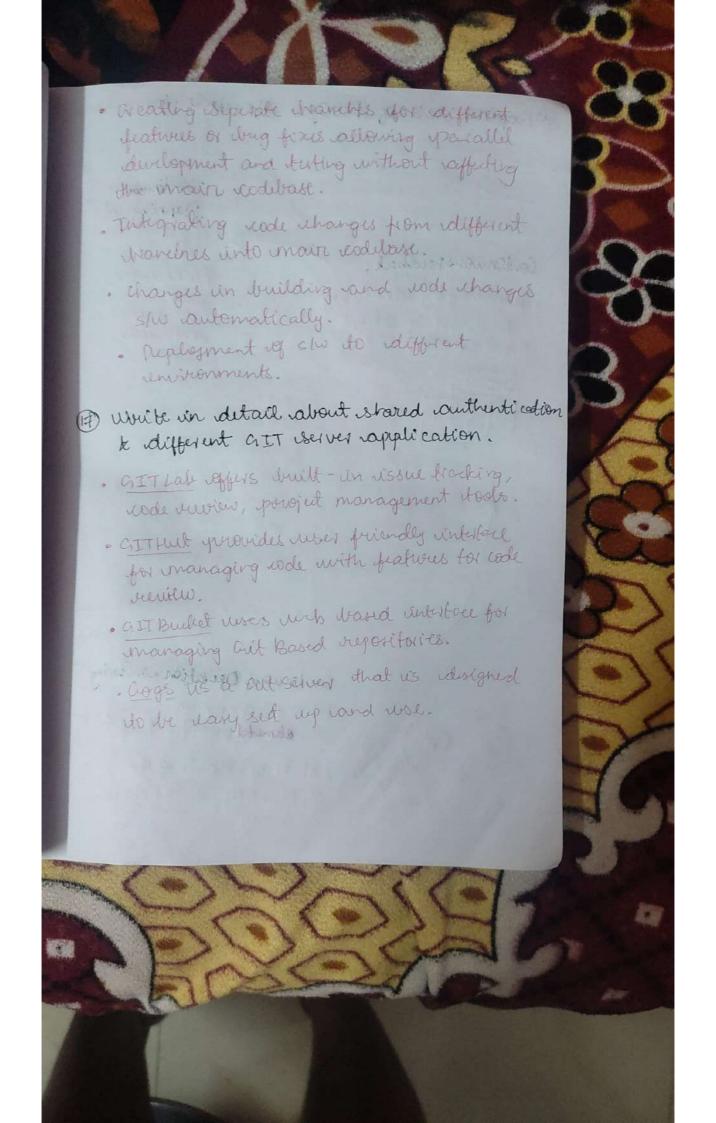


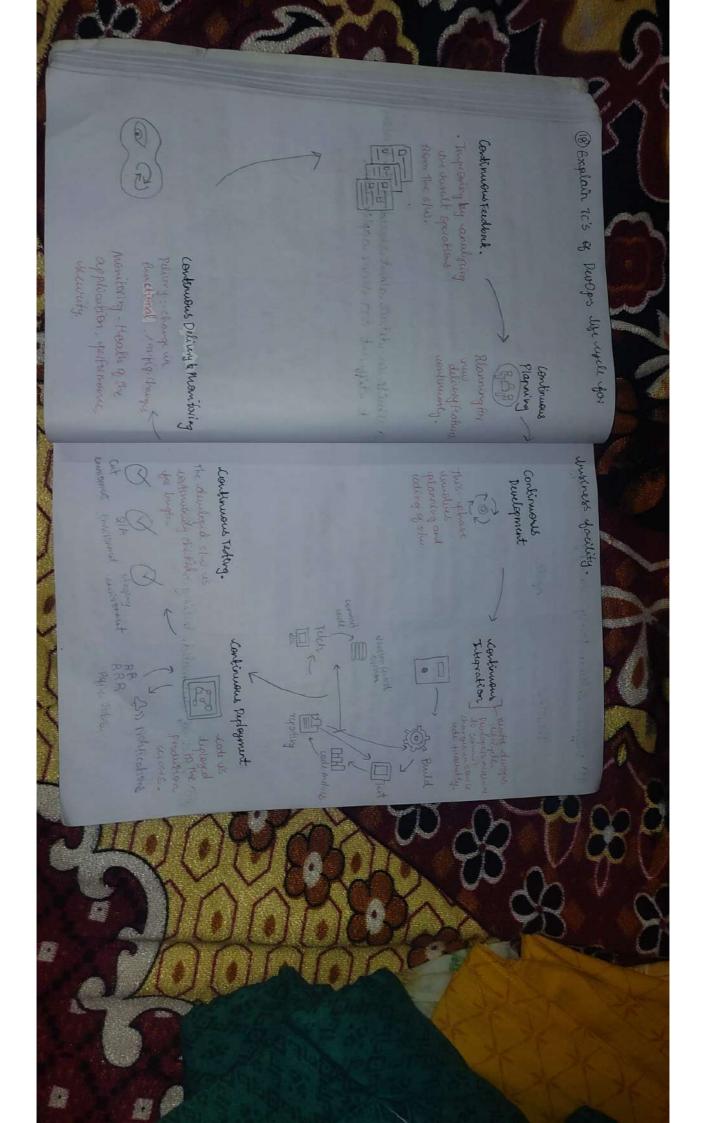


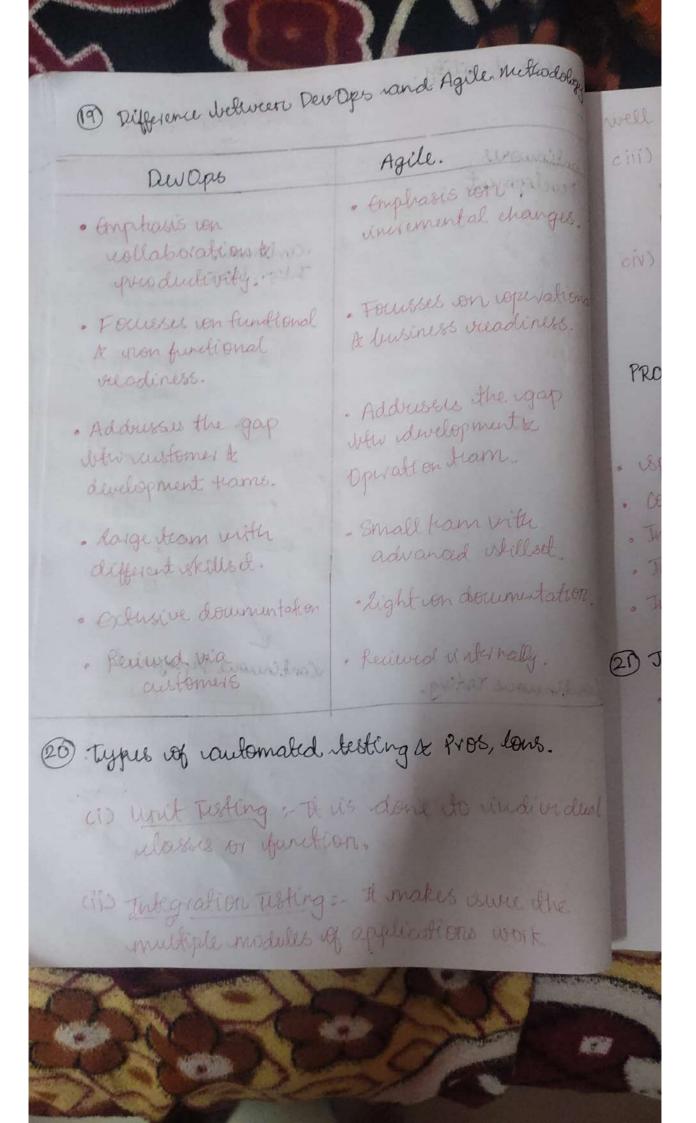
1 Automation in Duraps is a visualting utilization of cloud computing. · Infrastructure vas a iservice it hat allows volganization to quickly manage nonputing viewices as needed without maintaining physical infrastructure that allows improving speed for s/w delivery. . It provides tools and suvices such vas vocipts, API's, configuration management tool . across a construction · Continuous untegration and delivery provides tools to spellices such as build to deploy pipulias. . Monetoring and Logging to check the performance unities improving the wisibility & vuliability of their applications. (2) Benefits of CIICOC continuous . Faster 3/w idelivery · Improved rapidity . Increased collaboration . Enhanced security - Belfy resource allocation. . Farker feedback

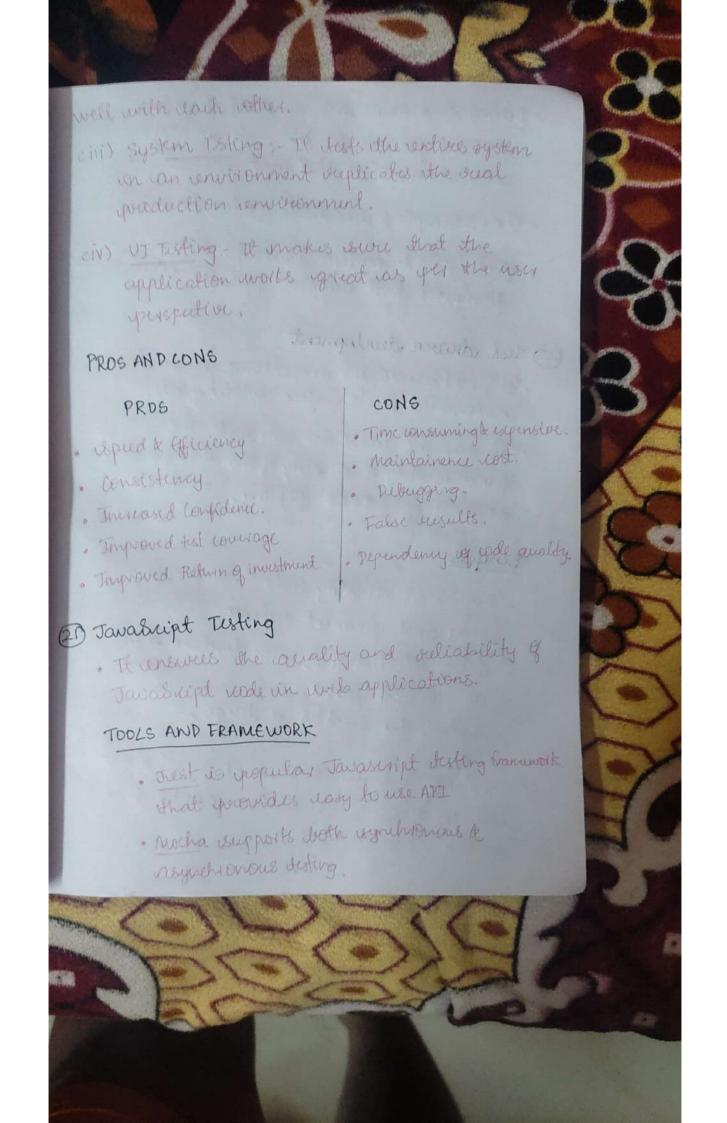


(B) Scrum is a methodology exhibit in Agile. How does crum camply with Agile manifes to portneigles. · soum complasis con istrong collaboration and communication between team members. . It your fizes the delivery of working s/w with vigular relooses. . It requires closer collaboration blue rdevelopment dearn & unstomer. . Designed to be flexible and adaptable. · Encourages within cal reachlere and good dings. · Regular and continuous improvement the sprous in sustainable development prochicle with SCRUMING wild some sing (16) Suffware control Management has a wortflow. Explain in detail captiving all ractivities in relation to Peropes Release Management Plan & Agile Special planning. thering track of code changes and maintaining a history of all unsiens, In ough version control eystem.

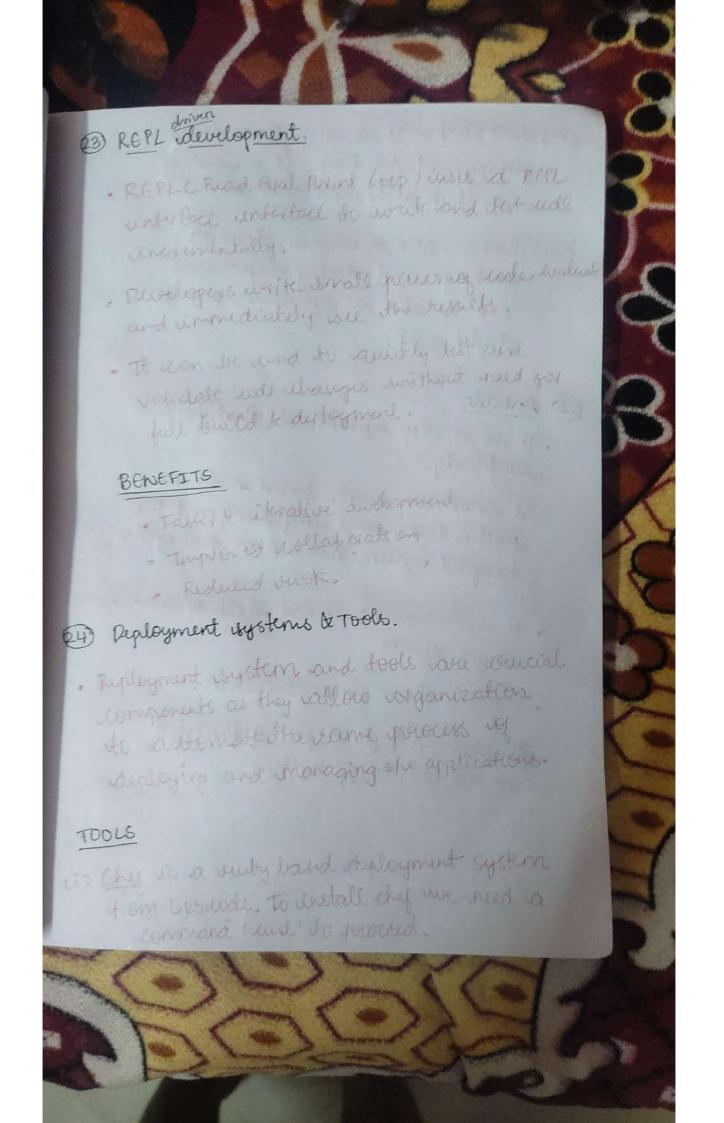








· Karma: It runs tust un rual directions waking possible to list wide un same convidenment as end user. · Chai: - Simple & vuadable syntex for writing to · AVA: Fast & medern Javasupt testing transmort that wurports parallel tisting. 22 Test driver development . It compliasizes the comportance to distating automated totals before muiting lade, . It can be used to validate the functionality & iquality of she stranges Benefits . Improved anality lode . Faster and if earent release, igniations deams. Reduce the oursks up dough . Valuable took for vargarization that are to she development.



ciii) salt stock - It is a python bard idealogment isolution. It consists of a isalt imaster and salt iminion. ciii) Pocker: Allows auganization 10

pockage and ideploy applications and iservices as containers vile portable lightweight.

(25) Ansible

- · It is a deployment soln that favours isimplicity.
- · It works on push-based model if e ut, pushes tasks and configuration to the itargeted systems Rather than quilling them
- . It requires no special skills or knowledge forest started. loget started.
- · Popular choice for organization.
- . It perovides high degree of fleribity & wonth of over target system



- 26 Puppet master and agent.
 - · Puppet master is vuspionsible for distibuting ronfiguration unfo to the puppet agents
 - . Puppet ragent its surprovible for applying nortigus ational rinfo received from the master to the starget system.
 - · try venefits of puppet architecture is flexibility.
 - · base of use .
 - . Juppet language is simple to intuitive.
 - · High livel abstraction that makes easy to manage complex systems.