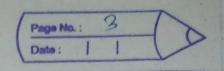
181240116001 Vishwoo Acharya Assignment-5 1) Explain Dévops, ît's importance & benéfits, 7° c's of devops lifferycle for business agaility. Ang 4 The Devops is the combination of two words, one is Development and other notoxago 22 It is a culture to promote the development and operation process collectively 4) This allows a single team to handle the entire application lifecycle, from development to testing, deployment, and operations · Impostance: 5 Devops is important because it's a software development and operations approach that embles faster development of new products and easier meintenance of existing deployments · Benefits: 4) Maximizes Efficiency with Automation 4 & Optimizes the Entire Business L'Improves Speed and Stability of software Development and deployment 5 It gets you to focus on what matters most & People

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team and
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inal stage of
Integration
(Testeng)
(Monitering)
and coding
white the state of the
the entire devops
unit testing,
de seriew and

· Life cycle : Lo It defines an agile operations and develo 12 It is a process the by the development operational engineers beginning to the f the product. Developmen Coperations DevOps Lifecycle (Deployment Feedback It Continuous Development It involves planning of the software 27 Continuous Integration Ly It is the heart of Lifecycle. It andudes integration testing, con packaging.

31 Continuous Testing

5 Here, the developed softunge is



Continuously testings for buggs, and tools (testing tools) such as Test NCR, Junit, Selenium, etc are used.

41 Continuous Monitoring

there, important information about the use of the softenare is recorded and carefully processed to find out trends and identify problem areas.

5) Continuous Feedback

The application development is consistently improved by analyzing the results from the operations of the software

61 Continuous Deployment

production servers, also it is essential to ensure that the code is correctly used on all the servers

77 Continuous Operations

All devops operations are based on the continuity with complete automation of the release process and allow the organization to arrelessate the overall time to market continuity.

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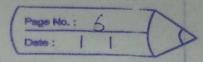
24 Explain CBSE Any 5 CBSE = Component Based Software Engineering 5 It is a process that focuses on the design and development of computer based systems with the use of reusable software components. · CBSE France woork Activities is Framework activities of component based software engineering are as follows: It Component Qualification: 1) This activity ensures that the system architecture define the requirements of the components for becoming a reusable component. 21 Component Adaptation: 4) This activity ensures that the architecture defines the design conditions for all component and identifying their modes of connection 3/ Component Composition: Is This activity ensures that the architectural style of the system integrates the software components and from a working system.

41 Component Update: 5 This activity ensures the updation of Seusable components. Sometimes, upadets are correplicated due to inclusion of this posty. 3/ Explain Case-tool Taxonomy Ang & CASE = Computer Aided Software Engineering 17 It is the implementation of computer facilitated tools and methods in software development 15) It is used to ensure a high-quality and defeat-free software Ly It ensures a check-pointed and disciplined approach and helps designers developers, testers, managers and others to see the project milestones during development to made · CASE Tools: 4) The essential idea of CASE tools is that in-built programs can help to analyze developing systems in order to enhance quality and provide better is Throughout the 1990, CASE tool become

these kinds of tools to help conte

post of the software lexicon, and

big companies like TBW were using



La Various tools are incorporated in CASE and are called CASE tools, which are used to support different stages and milestones in a software development life cycle.

## · Types of CASE Tools:

If Diagroumming Tooks:

The belos in diagrammatic and graphical representations of the data and system

Flow and data flow among different software components and system structure in a pictorial form.

2) Computer Display and Report Grenerators:

5) It helps in understanding the data
requirements and the relationships
involved.

3) Analysis Tools:

1) It focuses on inconsistent, incorrect specifications involed in the diagram and data flow.

44 Central Repository:

5 It provides the single point of storage for data diagrams, reports and documents related to project management

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5) Decumentation Generators: It helps in generating user and technical documentation as per standards. 15 It creates documents for technical users and end users 67 Codle Grenerators: DIT aids in the outo generation of code, including definitions, with the help of the designs, documents and · Advantages 1) The overall quality of the product is Improved as an osganized approach

is undestaken dusing the process of development

Ly Chances to meet seal-world sequisements are more likely and easies with a computer-aided software engineering approach

· Disaduantages

Li Cost & Using case tool is very rostly 12 Leasning Curve : programmer productivity may fall in the initial phase of implementation, by Tool mix