Which of the following benefits does Agile offer in comparison to waterfall approach ?

* Changes are easy to make after initial planning
* Testing after each iteration ensures bugs are caught early

Which of the option represents the advantages of continues integration technical practice?

* Detection of integration bugs early
* Helps prevent speculative code begin written
* Results in deployment of unit tested code to production environment
* Facilitate the frequent integration of code to have a working version available all the time.

Which of these is FALSE with respect to the benefit offered by adoption of devops practices

* Adoption of only continuous integration practice promises early time to market for customers

Choose the statement which represents the infy view of devops

* Devops transformation involves automation using technology , integrated team with a unified process towards to a unified goal
* Devops transformation involves automation using tools stacks to facilitate continues integration
* Continues delivery and
* Devops transformation involves combining development team and operations team together
* Devops transformation involves the roadmap for automation of all the activites in the software development lifecyle

Key aspects of environment management

* Provisioning
* Continues management
* Unit testing
* Packaging

A dev team working on e-commerce project has adopted continues integration delivery and deployment. How ever that the versions of build , test and releases are not consistent. What could be going wrong

* Configuration of the tools in the CICD pipeline might be wrong
* The team is not building binaries only once and not using an Artifactory
* The tem is not testing the application in production like environment
* Every check in or change in the code/ test is not going through the entire CICD pipeline

One of the devops teams at Infosys is making available a new feature to small set of users and plan to scale it gradually. What is the concept called and what is the advantage

* Staged rollout ensures users feedback is obtained and impact of any errors can be reduced
* Feature toggle ensures that a new features is made available on live system
* Microservices ensures that the requirement are broken down into small components and released to small user bases
* Service virtualization ensure that the testing of new features are done on a small user base

Match the scenario with the feature/capability that can be applied to help the problem

The dev team has completed working on a page offering fest discounts to customers. They want to test this feature with a set of customers before rolling it out to the others. They want to ensure that the feature gets to a certain set of users through code itself

* Feature toggle
* Micro service
* Big room planning
* Service virtualization
* Infrastructure as a code

Which of the following is a definition of code coverage ?

* Lines of source code that has been tested before deploying to QA environment
* Measurement used to describe the degree to which the source code of a program has been tested
* Number of environments in which the code is deployed and tested
* Number of testcases written

What is programmable infrastructure which involves writing code using a high level or descriptive language to manage configurations and also provision infrastructure and deployment in an automated fashion called?

* Service virtualization
* On deman infrastructure
* Just enough infra
* Infra as a code

The devops team consisting of 10 members are working on a feature. The feature has user stories and each developers is working independently on the . The code is merged at the end of the day. The dev team notice too many merge conflicts. Choose the statements that can help alleviate this problem

* Ask the developer to merge code sequentially one after another this will reduce merge issues
* Ask the developers to combine their sequence of commits to that the feature branch before they commit and push code to
* Merge confilicts can not be resolved if there are multiple developers working on a feature
* Create one single branch for all user stories and ask developers to use this branch only and avoid making changes to the team

Choose option that represents the common challenges faced by isolated teams(dev,test,ops) from perspective which comes in the way of faster delivery to customers

a)Delays due to formal knowledge transfer from dev to ops for every release

b)Tedious change management process requiring lots of approvals

c)Complex release management with manual checks impacts the operational efficiency

* Options a , b and c
* Option a only
* Options a and D
* None of the given options

According to infosys view on devops which one of the following statements is true ?

* Dev test and ops teams need to be kept separate throughout the project
* Dev test and ops team need to be together from the beginning of the project
* Dev test and ops team can merge anytime as and when required during of the course of the project
* Dev test and ops teams could start separate but move progressively toward being a common team to enhance

What is continuous delivery and continues deployment?

* Continuous delivery is a capability of deplying code when ready to production where as continuous deployment is
* Continues deployment is a capability of deploying code when ready to production where as continuous delivery is
* Both are the same continuous delivery and continuous deployment is a process to deploy code to production
* None of the given option

Which of below can be used for releasing feature and enabling and disabling them without changing the code?

* Rapid prototyping
* Feature toggle
* Team driven development
* Using Jenkins

Artifactory repository ensures ?

* The right version of the build is used for QA and the completely tested version goes for release
* Quality of test cases
* Maintenance of test objects and their version
* Correctness of builds

John developer finds that very often when the code submitted by him is built in a CI system, the quality tool often reports and critical issues. John wants to know these issues before he commits code. What is the best way to address this ?

* Enable a post commit script that checks for bugs
* Enable a pre commit script that checks for bugs
* Ask the developers to manually check for bugs before committing code
* Run a code quality checker after the code is committed on developer machine

At what stage an automated application code review is recommended in CICD pipeline ?

* After code is deployed to QA environment
* As a part operational readiness checks before deploying to production environment
* Before code is committed to integration branches
* Code review is not done in an automated CICD pipeline

Choose the stmt which represents the need for continuous monitoring ?

* To track usage of the new deployment of the application and provide quick feedback to business
* To automate executing automated tests as part of the software delivry pipline
* To provide role based security for controlling who can deploy in which environment
* To integrate the tools for code review , unit tests and code coverage

What is shift-left strategy?

* Automation tests and running those tests as early as possible in development lifecycle
* Continuous testing after code is deployed to QA environment
* Performs static application security scans before code is compiled
* To combine dev and ops teams together

Match the scenario with the feature/capability that can be applied to help the problem

A testing team maintins test data and is also automating their testing process.. they find a lot of service level interfaces that will not be available for them to test on a regular basis and hence need to simulate them. Presently testing of such interfaces is done only when available which is causing a lot of trouble to the team

* Feature toggle
* Micro services
* Big room planning
* Service virtualization
* Infrastructure as a code

An Artifactory repostiroy is ?

* A version control tool for storing java code
* A continuous deployment tools used for deploying software artifacts
* A product developed by IBM for repository management
* A repository for storing , managing and distribution of software artifacts

Choose the most appropriate sequence of implementation of CICD

Choose the metric that helps compute the non-compliance against coding conventions

* Code complexity
* Percentage of API documented
* Number of build failures
* Unit test success rate

Which of given statements is true with respect to devops and ITSM?

* Devops will eventually replace ITSM as it makes most ITIL process redundant
* Devops is entirely about continuous development integration and automated delivery and hence ITIL has no relevance to devops
* ITSM and devops are complimentary and organizations can use elements of both
* Devops ismore relevant to small and midsize organizations while ITSM is more suited to large enterprises

Why is a roadmap required? Choose the option(s) that represent the reasons.

Since DevOps implementation is a journey

A roadmap is a part of any project

Changes may be required in governance, process, team structure

Organization change management will be involved

Q2 of 4

outlined\_flag

Read the transformation roadmap present [here](http://teamwiki/pub/DevOps/TransformationRoadmap/DevOps_Transformation_Roadmapv1.0.pdf) and answer the following question.

Choose the steps involved in the transformation journey.



Readiness Assessment->Gap analysis ->Create target blueprint->Recommend roadmap->Pilot project execution->Enterprise adoption



Readiness Assessment-> Create target blueprint-> Gap analysis ->Recommend roadmap->Pilot project execution->Enterprise adoption



Readiness Assessment->Gap analysis ->Recommend roadmap ->Create target blueprint-> Pilot project execution->Enterprise adoption



Gap analysis ->Readiness Assessment-> Create target blueprint->Recommend roadmap->Pilot project execution->Enterprise adoption

Q3 of 4

outlined\_flag

Read the transformation roadmap present [here](http://teamwiki/pub/DevOps/TransformationRoadmap/DevOps_Transformation_Roadmapv1.0.pdf) and answer the following question.

Choose the points which represent the typical role progression for a developer in the transformation?

Adapt to evolving architecture, design and short iterations

Focus on collaborative planning

Focus on build automation and continuous integration

Cross skilling to test, ops and support roles

Manual testing

Problem resolution to support related queries when support team demands it

Q4 of 4

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Read the transformation roadmap present [here](http://teamwiki/pub/DevOps/TransformationRoadmap/DevOps_Transformation_Roadmapv1.0.pdf) and answer the following question.

Choose the points which represent the organization change management.

Business ownership by having a single product owner

Align HR policies to new roles and responsibilities

Changes in organization governance, process and contract changes

Promotion of automation

Transformation buy-in and decision making

Continuous integration and Continuous Delivery