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DEVOPSF

EXIN DevOps Foundation
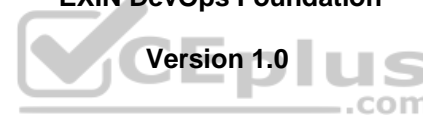
Version 1.0

Exam A

QUESTION 1

An IT architecture is characterized as monolithic and rigidly bound.

What difficulty with adopting DevOps practices can be expected?

A. Clearly defining the boundaries of the IT systems
B. Defining areas of responsibility for each DevOps team
C. Maintaining the increasingly complex architecture

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://books.google.nl/books?id=0zSGDwAAQBAJ&pg=PT126&lpg=PT126&dq=exin+IT+architecture+is+characterized+as+monolithic+and+rigidly+bound.+What+difficulty+with+adopting+DevOps+practices+can+be
+expected&source=bl&ots=Kuo1rtSYco&sig=ACfU3U28HSO7RkPdD2SDsEhauQXXrgTQZg&hl=en&sa=X&ved=2ahUKEwjxycCW-7vIAhXSknAKHWs-AmkQ6AEwAHoECAkQAQ#v=onepage&q=exin%20IT%20architecture%20is%
20characterized%20as%20monolithic%20and%20rigidly%20bound.%20What%20difficulty%20with%20adopting%20DevOps%20practices%20can%20be%20expected&f=false

QUESTION 2 DevOps benefits from a 'start-up spirit' to focus on innovation and
entrepreneurship.

Which attitude to change fits with that start-up spirit in DevOps?

A. Authoritarian
B. Autonomous
C. Conservatism
D. Experiments

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3 Commercial off-the-shelf software (COTS) has both advantages and limitations
for businesses.

What is true about COTS?

A. COTS supports continuous development with its fast implementation
B. COTS will save the business time and money, by reducing development time
C. Depending on the type of COTS used, the possibility of customization is limited

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://sites.google.com/site/advancedsofteng/software-acquisition/using-commercial-off-the-shelf-packages-cots

QUESTION 4 DevOps implies that not only the boundary between Development and Operations
must disappear.

Which other boundary must also disappear?

A. The boundary between Development and marketing
B. The boundary between IT management and the rest of the IT department
C. The boundary between the finance department and Development
D. The boundary between the HR department and Operations
E. The boundary between the IT department and the business

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5 In DevOps, the organization should start where they are and progress iteratively.

What needs to change compared to a more traditional environment to facilitate progression?

A. Cultural and organizational changes within the IT department only
B. Disappearance of the Development and Operations departments
C. Implementation of complex systems, to ensure confidence in the systems
D. Management principles and approaches to information technology

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
A team stores not only source code, but many other things related to the IT system, such as tests, scripts, artifacts, libraries and many other things.

Which DevOps principle has this team implemented?

A. Continuous delivery
B. Deployment pipeline
C. Version control

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7 For what type of business is DevOps the least suitable?

A. Companies with unacceptable IT-related risks for the core business
B. Companies without in-house software development
C. Small companies or start-ups

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8 Every team needs information. In DevOps, it is stressed to visualize certain information.

Which piece of information should be made available, so the team has ready access to it?

A. In which step is work accumulating, inhibiting flow?
B. What is management working on right now?
C. Which other projects do not have enough manpower?

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
A company is not yet using DevOps practices. The team notices a problematic accumulation of technical debt. One of the team members suggests implementing DevOps practices to solve this problem.

Which DevOps practices support reducing technical debt?

A. Constant refactoring and eliminating previous bottlenecks
B. Continuous delivery and promoting pair programming
C. Continuous feedback and implementing a deployment pipeline

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10 What is a benefit of the way the Definition of Done is defined in DevOps?

A. The team focuses less on the "what" and more on "when"
B. The team focuses less on the "what and more" on "where"
C. The team focuses less on the "what" and more on "who"
D. The team focuses less on the "what" and more on "why"

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11 DevOps incorporates Lean Production principles in software development.

What Lean principle is the core of DevOps?

A. Continuous delivery
B. Self-organization
C. Value chain thinking
D. Welcoming change

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:

QUESTION 12 Your team uses
continuous delivery.

What are two reasons to keep the batch size small? (Choose two.)

A. So that each team member can get their own batch
B. So that root causes of problems can be identified and resolved quickly
C. So that the product owner can report back to the customer
D. So that the product owner has a good idea of what is delivered when
E. So that there is room for Kaizen blitzes in between work

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://medium.com/faun/small-is-beautiful-the-importance-of-batch-size-ea968ed8d477

QUESTION 13 What is a correct use of a
value stream map?

A. Identifying and eliminating bottlenecks in the process
B. Inserting feedback from the customer into the process
C. Visualizing the work that is done or is in process

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://books.google.com.pk/books?id=FlZeAgAAQBAJ&pg=PT30&lpg=PT30&dq=exin+correct+use+of+a+value+stream+map&source=bl&ots=TlRWGeS-Zm&sig=ACfU3U3P5fpCgM_hBEMNdj00fiknvrnig&hl=en&sa=X&ved=2ahUKEwi5obqRxbzlAhWNDWMBHelvDFlQ6AEwAHoECAgQAQ#v=onepage&q=exin%20correct%20use%20of%20a%20value%20stream%20map&f=false

QUESTION 14 What should be taken into account most when prioritizing tasks according to
DevOps practices?

A. How long the task has waited
B. How much the team likes the task
C. How much value the task adds
D. How much work the task takes

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15 Time-to-market is
very important.

In what way is DevOps supporting a short time-to-market?

A. By funding products and not projects, to allow for innovation and optimization
B. By reassembling a DevOps team for each project to ensure relevant experience
C. By training the team based on missing knowledge for each new iteration

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.exin.com/article/devops-indispensable-agile-work?language_content_entity=en

QUESTION 16 What helps a DevOps team to successfully develop and deliver
working software?

A. Allowing your DevOps teams to develop their own specific mission
B. Forming a DevOps team for short period of time during a project
C. Identifying, fixing and learning from errors only after your project ended
D. Writing code for software to have built-in quality as a main goal

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17 When value stream mapping, which metric is essential to measure
for each step?

A. Cost of delay
B. Delay divided by duration
C. Key group comparison
D. Percentage complete and accurate
E. Work-in-Progress (WiP)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18 A company decides to do canary releases for some
new functionality.

What is a description of a canary release?

A. Releasing to a limited number of users, before releasing it to all users
B. Switching users from interacting with one release to the next within seconds
C. Test business hypotheses by having half of the users switch to a new release

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.modernanalyst.com/Careers/InterviewQuestions/tabid/128/ID/5041/What-is-a-canary-release-and-what-are-some-of-the-benefits.aspx

QUESTION 19
Even more than Agile or Scrum, DevOps encourages continuous delivery of new functionality and continuous feedback from the customer.
What does this achieve?

A. It increases the team's responsibility
B. It improves customer relations
C. It yields a greater return on IT

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20 In what way does DevOps take operational
requirements into account?

A. By considering the workflow from start to end
B. By defining a feature set for first marketing
C. By defining all activities that must be done

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21 Which architecture is a cause of the problems with DevOps that a microservice
architecture solves?

A. Intel x86 architecture
B. Mainframe architecture
C. Monolithic architecture
D. Serverless architecture

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://dzone.com/articles/what-problems-do-microservices-solve-2

QUESTION 22 Configuration management can prevent unauthorized
changes to Production.

How should the system be configured to prevent unauthorized changes to Production?

A. Admin passwords should be regularly and automatically changed without notification to all IT staff
B. Chaos and disruptions should be deliberately and automatically introduced into productionC. Only a single source should be used to give out information on the status of the system
D. Value stream mapping should be used to identify security leaks and unauthorized persons

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
QUESTION 23 Cloud computing advances have partly enabled
DevOps practices.

Which cloud technology characteristic or characteristics enable DevOps most?

A. Broad network access ensures that both Development and Operations can access the code easily
B. Cloud computing is in the basis completely script-based, which means the environment is easy to automate
C. Resource pooling and rapid elasticity make cloud computing cheaper, so that resources can go to development

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24 Is it true that when implementing the deployment pipeline, extensive automation is required to consider it a
DevOps practice?

A. No, because a deployment pipeline is not the same as automation. Automation is the underlying ideology
B. No, because the deployment pipeline is just used to order work, automation does not apply
C. Yes, because if extensive automaton is not used, technical debt will start accumulating
D. Yes, because the deployment pipeline is needed for continuous automation activities
E. Yes, because the deployment pipeline is the technology that is used to automate work

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.getzephyr.com/insights/steps-creating-effective-devops-focused-deployment-pipeline

QUESTION 25 There are many reasons for an organization to become
interested in DevOps.

When should an organization become interested in DevOps?

A. When automated testing is achieved and all functional requirements are tested automatically
B. When continuous delivery is achieved and every change automatically results in a new version of the product
C. When continuous deployment is achieved and every change is immediately released to the customer
D. When continuous integration is achieved and every update to the code is saved immediately to Production
E. When the core business of the organization highly depends on information technology

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26 Why should everything be stored in a version
control system?

A. It allows Developers to re-use already written code
B. It gives both Development and Operations access
C. It is the basis for automation of the deployment pipeline
D. It prevents deliberate introduction of chaos in the system

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27 DevOps practices incorporate the value stream concept from
Lean Production.

What is a value stream?

A. The amount of products that are delivered within a timeframe
B. The sequence of releases that deliver a working product
C. The series of actions performed to fulfill any type of request

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28 Why does Operations benefit most from improved configuration
management?

A. It allows Development to take over Operations tasks if they have too much work
B. It allows Operations to automate configuration management using scripts
C. It allows Operations to be involved in earlier stages of the development
D. It allows Operations to respond to incidents more quickly than without

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29 Your team works in three-week iterations and cannot get all the work for a batch done within the iteration. They frequently
encounter bottlenecks.

What is the best reaction of the team after they identify a bottleneck?

A. Discuss with the Product Owner which work can be shifted to another iteration
B. Extend the length of this particular iteration to four weeks to remove the bottleneck
C. Trust that they will solve the bottleneck in the next batch or iteration

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30 What is the DevOps practice called that maximizes detection of
common errors?

A. Shift Defect
B. Shift Down

C. Shift Left
D. Shift Right
E. Shift Up

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://books.google.com.pk/books?id=gBSGDwAAQBAJ&pg=PA70&lpg=PA70&dq=devops+practice+called+that+maximizes+detection+of+common
+errors&source=bl&ots=TxpzF69jKi&sig=ACfU3U0jOVfwRwOavRYYsAQxejGlZzkjqw&hl=en&sa=X&ved=2ahUKEwjStsHUhr3lAhXZ6OAKHeCiCs4Q6AEwAHoECAkQAQ

QUESTION 31 When will an organization find it difficult to adopt
DevOps practices?

A. When many bureaucratic processes are in place, because this causes inflexibility
B. When microservices are used, because they expand the attack surface
C. When operational complexity is high, because DevOps needs a simple architecture

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32 Why is reducing the fragility of a business
system difficult?

A. Because doing so will disrupt the current product and service timelines
B. Because doing so will increase the number of incidents that occur temporarily
C. Because it is difficult to deliberately introduce chaos into the Production environment
D. Because of the high risks of business disruption when integrating large numbers of systems

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://books.google.com.pk/books?id=gBSGDwAAQBAJ&pg=PA19&lpg=PA19&dq=devops+reducing+the+fragility+of+a+business+system+difficult+high+risks+of+business+disruption+when+integrating+large+numbers+of
+systems&source=bl&ots=TxpzF69oQd&sig=ACfU3U2SLq5-DSpRLyWLIUobVfv7Ts_8OQ&hl=en&sa=X&ved=2ahUKEwitxeLciL3lAhX8BGMBHZlpBEcQ6AEwAHoECAkQAQ

QUESTION 33
IT work within DevOps is organized differently from more traditional practices, using newer infrastructure management technologies to make this possible.

Which two technologies are meant? (Choose two.)

A. Automation
B. Cloud computing
C. Containerization
D. Software robots
E. Virtualization

Correct Answer: AB
Section: (none)
Explanation
Explanation/Reference:

QUESTION 34 The description of the Scaled Agile Framework
(SAFe) model states:

"SAFe enterprises implement DevOps to break down silos and empower each Agile Release Train (ART) and Solution Train to continuously deliver new Features to their end users. Over time, the separation between development and operations is significantly reduced."

Why is this a limited view on DevOps?

A. Because DevOps extends the agile ideas from IT production to the entire organization, all processes and the entire value chain
B. Because DevOps is better than other methodologies for developing software by incorporating continuous integration and continuous deploymentC. Because there is no limit to the improvements you can establish with DevOps, due to the continuous improvement requirement

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35 A commonly understood definition of the term
'time-to-market' is:

The time between business idea and the possibility of a customer purchase.

Which two DevOps practices may help reduce the time-to-market for a company? (Choose two.)

A. Continuous delivery and deployment
B. Continuous identification and reduction of losses
C. Extreme programming
D. Pair programming
E. Visualizing the Work-in-Progress (WiP)

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36 What is not a proper use of the
deployment pipeline?

A. As an audit log that enables the monitoring of all changes
B. As an optimal way to link development and testing together
C. To accelerate the delivery of changes to Production
D. To always maintain the system in a working condition

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
The most valuable information of a value stream map is taken from three key metrics.
What is one of these three key metrics?

A. Measured service

B. Percentage complete
C. Process time
D. Server time

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://books.google.com.pk/books?id=0zSGDwAAQBAJ&pg=PT122&lpg=PT122&dq=devops+The+most+valuable+information+of+a+value+stream+map+is+taken+from+three+key+metrics&source=bl&ots=Kuo1snQUbn&sig=ACfU3U1zDQjY9nXMmRnLAviepDyZCfEpgg&hl=en&sa=X&ved=2ahUKEwit37qah73lAhXv2eAKHSmiDloQ6AEwDXoECAkQAQ#v=onepage&q=devops%20The%20most%20valuable%20information%20of%20a%20value%20stream%20map%20is%20taken%20from%20three%20key%20metrics&f=false

QUESTION 38
A company wants to increase production stability. They have already automated all testing of new releases.

What else do they need to automate to increase production stability?

A. Change management process
B. Integration of release with deployment management
C. Root cause inventories for recovery
D. Release inventories for recovery
E. System and application monitoring

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39 DevOps states that release
should be a routine.

Which DevOps principle is necessary for daily releases?

A. Automation of the deployment pipeline
B. Continuous improvement of processes
C. Solving incidents immediately
D. Visualization of the Work-in-Progress

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://dzone.com/articles/release-frequency-a-need-for-speed

QUESTION 40
Waterfall development was causing certain problems by not delivering what the business needed. Agile addressed some of these problems.

What is a Waterfall feature that is no longer used in Agile?

A. Delivery of small batches of working software
B. Delivery of software based on customers' needs
C. Sequential execution of predetermined stages
D. Using a programming language suitable for the business

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference: