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1. Select the correct statement regarding technology and innovation.

1 / 1 point

- ☐ DVD technology and innovation allowed Blockbuster Video to succeed.
- ☐ It is more important to have innovative technology than it is to have an innovative business model.
- ☐ Technology alone is the driver of innovation.
- ☒ Technology is the enabler of innovation.

✔ Correct

Correct. Technology is the enabler of innovation, and it is important to have an innovative business model.

2. Select the statement that correctly describes DevOps.

1 / 1 point

- ☐ DevOps is about teams using new tools such as automated pipelines for the fastest workflow possible.
- ☒ DevOps is a cultural change in which the development team and the operations team work together in cross-functional teams.
- ☐ DevOps is the combining of the development team and the operations team into one team.
- ☐ DevOps is primarily automation by DevOps Engineers.

✔ Correct

Correct. DevOps includes automation, fast deploys, and tools, but it is essentially about Dev and Ops working together.

3. DevOps has three dimensions. Which is considered the most important?

1 / 1 point

- ☐ Methods
- ☐ Agility
- ☐ Tools
- ☒ Culture

✔ Correct

Correct. The three dimensions are culture, methods, and tools. Culture is the most important.

4. Select the statement that correctly describes Extreme Programming (XP).

1 / 1 point

- ☐ When one phase ends, the next one begins. There is no provision for going back.
- ☐ Teams work in silos.
- ☒ XP is an iterative approach with tighter and tighter feedback loops.
- ☐ XP is an approach that values up-front planning with no provision for changing the requirements.

✔ Correct

Correct. The idea was to improve software quality by getting feedback quickly, get something to the customer, get feedback, and iterate.

5. What is the title of the book written by Jez Humble and David Farley that sets out the principles and technical practices for rapid, incremental delivery of products?

1 / 1 point

- ☐ *The DevOps Handbook*
- ☐ *The Goal*
- ☐ *The Phoenix Project*
- ☒ *Continuous Delivery*

✔ Correct

Correct. The book describes automation of the build, deploy, and test process.

6. What is behavior driven development (BDD)?

1 / 1 point

- ☐ Writing unit tests for the code you wish you had
- ☐ When test cases drive the design and development of code
- ☒ Focusing on the system as observed from the outside
- ☐ Focusing on the functions of the system from the inside

✔ Correct

Correct. BDD forces you to think about the behavior of the system from the outside in, focusing on business outcomes.

7. Select the correct statement regarding cloud native microservices.

1 / 1 point

- ☐ Multiple instances are split out.
- ☐ Each function has its own database and keeps track of its own state.
- ☐ Applications are designed as a collection of stateless microservices.
- ☒ All of the above.

✔ Correct

Correct. Cloud native microservices include collections of stateless services, separation of state, and deploying multiple instances.

8. Select the statement that correctly describes the bulkhead pattern.

1 / 1 point

- ☒ This pattern isolates failing services to limit the scope of failure.
- ☐ This pattern deliberately kills services for testing.
- ☐ This pattern enables an application to handle transient failures by delaying longer between each retry.
- ☐ This pattern trips once failures reach a certain limit or threshold. It detects a problem and avoids cascading failures.

✔ Correct

Correct. Bulkhead patterns isolate failing services to limit the scope of failure.

9. Select the correct statement regarding Taylorism.

1 / 1 point

- ☐ Taylorism is workers building individually crafted products.
- ☒ Taylorism is applying science to management and it led to the factory assembly line.
- ☐ Taylorism is working in teams that make their own decisions.
- ☐ All of the above.

✔ Correct

Correct. Frederick Winslow Taylor watched workers and separated them into specific roles.

10. Which statement correctly describes required DevOps behaviors?

1 / 1 point

- ☐ DevOps encourages avoiding change and experimentation.
- ☐ DevOps encourages using ticket queues and escalations.
- ☒ DevOps encourages breaking down silos and working together.
- ☐ DevOps encourages building bespoke infrastructure and maintaining it.

✔ Correct

Correct. DevOps encourages working together in cross-functional teams, shared ownership, collaboration, and embracing change.

11. Which one of the following is a key element in Infrastructure as Code?

1 / 1 point

- ☐ System and software manual configuration
- ☐ Building and maintaining unique servers
- ☐ Comprehensive written documentation
- ☒ Describing infrastructure in executable, textual format

✔ Correct

Correct. The executable, textual definition can be configured and stored.

12. What is Continuous Integration?

1 / 1 point

- ☐ Deploying code to a testing or staging environment
- ☐ Deploying code to a production-like environment
- ☒ The process of continuous building, testing, and integrating into the master branch
- ☐ Integrating code in larger and larger amounts

✔ Correct

Correct. After testing, this results in potentially deployable code.

13. Select the statement that describes Continuous Delivery.

1 / 1 point

- ☐ Deploy code to a testing or staging environment.
- ☐ Integrate code to a shared repository.
- ☐ Use automation to deploy directly to production.
- ☒ Build code so it can be deployed to production at any time.

✔ Correct

Correct. Every change is made to a production-like environment.

14. It is good practice to align teams with ____.

1 / 1 point

- ☐ the architecture you expect them to build
- ☐ the organization's long-term mission
- ☐ the organization's business domains
- ☒ All of the above

✔ Correct

Correct. It is good practice to align teams with the architecture expected, rather than the technology you have, with the organization's mission, and with business domains.

15. Select the correct statement regarding DevOps.

1 / 1 point

- ☐ DevOps is Dev and Ops with a wall of confusion between them.
- ☐ DevOps is a separate team that sits between Dev and Ops.
- ☒ DevOps is Dev and Ops working together with the same mindset.
- ☐ DevOps is done primarily by Ops.

✔ Correct

Correct. These teams also work together during the entire software lifecycle.

16. Actions without consequences lead to ____.

1 / 1 point

- ☐ good behavior
- ☐ empowerment
- ☒ apathy
- ☐ shared consciousness

✔ Correct

Correct. If you abstract people away from the consequences of their actions, they will become apathetic.

17. Which one of these is an effective metric for measuring social coders?

1 / 1 point

- ☐ How does your production compare to that of your coworkers?
- ☐ What unique contributions have you made this year?
- ☒ Are you building things that the rest of the company finds valuable?
- ☐ How many lines of code do you develop in a day?

✔ Correct

Correct. This gets people thinking about making their work valuable to others.

18. Which one of these is an example of a vanity metric?

1 / 1 point

- ☐ Reduced time to market for new features
- ☒ Increased number of page views on a website
- ☐ Reduced time to deploy a release
- ☐ Increased percentage of defects detected in testing

✔ Correct

Correct. You don't know what the hit represents so it is not actionable.

19. Which of these is an actionable metric?

1 / 1 point

- ☐ Mean lead time, or how long it takes for an idea to get to production
- ☐ Change failure rate, or how often new releases fail
- ☐ Mean time to recover, or how long it takes to recover from failure
- ☒ All of the above

✔ Correct

Correct. All of these, as well as release frequency, are actionable metrics.

20. Who was a leader in developing measures for team culture in relation to DevOps?

1 / 1 point

- ☐ John Allspaw
- ☐ Patrick Debois
- ☐ Jez Humble
- ☒ Dr. Nicole Forsgren

✔ Correct

Correct. Dr. Nicole Forsgren developed cultural questions for measuring team culture.