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**IT 303: SYSTEM INTEGRATION AND ARCHITECTURE 1**

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**Instructor: Mr. Rexal Toledo Date: 12-14-20**

***MODULE II: Pre-Test***

**TEST I:**

**1. DevOps means.**

A) Developers taking over all Operations tasks.

B) Automating the process of software delivery and infrastructure changes.

***C) The collaboration and communication of both software developers and***

***other information-technology (IT) professional while automating the process***

***of software delivery and infrastructure changes.***

D) The collaboration and communication of just software developers and

operations staff while automating the process software delivery and

infrastructure changes.

**2. Is this statement correct? “DevOps is more than just a tool or a**

**process change, it inherently requires an organizational culture**

**shift”.**

***A) Yes, there needs to be cultural shift within the organization across all***

***stakeholders to ensure a successful adoption of a DevOps approach.***

B) Yes, but the most up to date tools and LEAN processes need to be in place

to drive an organizational culture shift.

C) No, DevOps is all about the tools.

D) No, cultural shift will occur when staff are using the most up to date tools

and LEAN processes.

**3. The adoption of DevOps is being driven by factors such as:**

A) Use of Agile and other development processes and methodologies

B) Demand for an increased rate of production releases from application and

business unit stakeholders

C) Wide availability of virtualized and cloud infrastructure from internal and

external providers

***D) Increased usage of data Centre automation and configuration***

***management tools***

**4. Which benefits of adopting a DevOps approach could be included in**

**a business case to adopt a DevOps approach?**

A) Improved deployment frequency, which can lead to faster time to market

B) Lower failure rate of new releases

C) Shortened lead time between fixes

***D) Faster mean time to recovery in the event of a new release crashing or otherwise disabling the current system***

**5. Which statement best describes the relationship between DevOps**

**and Continuous Delivery?**

A) DevOps and Continuous Delivery are the same thing.

B) DevOps and Continuous Delivery are not related and are mutually

exclusive.

***C) DevOps and Continuous Delivery share a background in Agile methods***

***and LEAN thinking.***

D) DevOps and Continuous Delivery share common processes.

**6. Agile and DevOps are similar but differ in a few important aspect.**

**Which statement is correct?**

***A) Agile is a change of thinking whereas DevOps is actual organization***

***cultural change***

B) Agile is actual organizational cultural change whereas DevOps is a change

of thinking.

C) Agile is process driven whereas DevOps is role driven.

D) Agile is role driven whereas DevOps is process driven.

**7. Which of these statements are correct about DevOps?**

A) DevOps and ITIL® don’t mix

B) DevOps won’t work in regulated industries

C) DevOps won’t work with Outsourced Development

D) You must use cloud technologies

***None of the above***

**8. Which statement best describes the role of Change Management**

**within a DevOps environment?**

A) Nothing changes as a risk adverse Change Management approach is

paramount to IT and business success.

B) The moment an app change is asked for, the request should go to the

Developers to authorise. Once authorised it goes to Operations for

implementation.

***C) The moment an app change is asked for, the request should go out to***

***everyone on the team, no matter which IT discipline they work in.***

D) DevOps does not need Change Management?

**9. Which statement best describes the goal of DevOps?**

A) One goal of DevOps is to establish an environment where Change

Management does bot control application releases.

***B) One goal of DevOps is to establish an environment where releasing more***

***reliable applications faster and more frequently can occur.***

C) One goal of DevOps is to establish an environment where application

development perform all operations tasks.

D) One goal of DevOps is to establish an environment where releasing applications is valued over the quality of the released application

**10.The development teams that support the Agile approach to DevOps must**

**include staff from the operations teams to ensure:**

A) That stability is prioritized over creativity

B) Operational considerations are prioritized over stability

***C) Operational considerations are taken into account***

***D) The resultant designs of the systems will fit nicely into the business as***

***usual environment***