**Cloud computing**

**Internal Assignment Applicable for June 2020 Examination**

**1. Acme University has set up a committee to decide whether it should use cloud solution for the automation of Training & Placement function. You are invited as a subject matter expert on this committee. You are expected to specifically provide the recommendations for the most appropriate cloud deployment model and cloud service model. Your recommendation must be supported by proper justification**.

**Answer**: The name cloud computing was inspired by the cloud symbol that's often used to represent the Internet in flowcharts and diagrams. A cloud service has three distinct characteristics that differentiate it from traditional hosting. It is sold on demand, “typically by the minute or the hour; it is elastic -- a user can have as much or as little of a service as they want at any given time;” and the service is fully managed by the provider (the consumer needs nothing but a personal computer and an Internet access). Significant innovations in virtualization and distributed computing, as well as improved access to high-speed Internet and a weak economy, have accelerated interest in cloud computing.

The Cloud in terms of

**2. Though all other partners of Acme Legal Associates seemed to be happy with the heavy discount proposed by the IT vendor for its SaaS solution, its one partner got concerned about signing up five-year agreement to get this discount. Not only the agreement is long term but is devoid of any SLAs. She has invited you to talk to all partners together about pros and cons of signing such long-term contract with a SaaS solution without much due diligence. What would you say in your formal presentation to them?**

**Answer**: The viability and capabilities of small and start-up cloud vendors could be a concern for long term continuity of service. Enterprises that are using proprietary vendor technology may incur heavy costs if they have to move to another cloud platform. This situation is called vendor lock in. When you think integration, you generally think of combining various hardware and software components together to create something. The same idea applies in the cloud. One example of integration: easily integrating your data with Software as a Service application. This is an

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**3. “More than anything else, I would be worried about the data security”, Mr Kausik started articulating his concerns after hearing the presentation of BetaTech. “I understand this is not our customer data as we will be collecting information from general public. But they will be sharing their personal details because they are sharing it with us. Our brand stands for trust and unless we are 100% sure that this data will not be seen or used by anyone other than us, we can’t go ahead with this solution.” Mr Kausik ended his statement while reaching out for a glass of water. Mr Kausik was listening to the BetaTech’s proposal to organize an online competition on personal finance awareness. The proposal described how BetaTech will not only develop the IT solution but will entirely host the solution on cloud and will be made available to Mr Kausik’s company as a SaaS. It deliberated cost savings but refrained from describing how data will be handled and secured in the SaaS solution.**

**a. What kind of issues Mr Kausik would see through the proposal presented by BetaTech?**

**b. How BetaTech can address the concerns raised by Mr Kausik?**

**Answer**: a) To understand the cloud computing technology, think of cloud so that it will have layers inside divided into two parts: back end and front end. Front end layer consists of everything visible to a normal human who is using the technology and also gets an opportunity to interact with it. Back end consists of both hardware and software required to make the front -end interface functioning properly.

The set of computers in the cloud computing technology are put together so that any applications can take any resource it wishes to take and also use up the complete power as it usually does if it functions on one single machine. Cloud computing also provides scope for flexibility that is the number of resources being consumed can vary depending on the task at hand, which means that the resources can either decrease or increase according to the job.

**Issues in cloud adoption**

**Privacy**: One of the main issues while adopting cloud is privacy, which may not be there all the time. The user data can be accessed by the host company with or without permission. The service provider may access the

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