**Information System for Managers**

**NMIMS Centre for Distance and Online Education (NCDOE)**

**Internal Assignment Applicable for June 2025 Examination**

**Q1. TechX Solutions is a mid-sized software development company that has been growing steadily over the past five years. The company’s Information Systems (IS) initially relied heavily on on-premise servers and traditional software to support its various functions, including software development, project management, and customer support. As the company expanded, the limitations of its traditional IS became evident: slow processing times, limited scalability, data accessibility issues, and rising maintenance costs for on-premise infrastructure. In response to these challenges, TechX Solutions decided to transition to cloud-based solutions. The company chose a hybrid cloud model, integrating both public and private clouds, with the intention of leveraging cloud computing to streamline its operations, improve data accessibility, and reduce costs. Discuss how the adoption of cloud computing tools (e.g., cloud storage, cloud-based development platforms, cloud infrastructure) has enhanced the efficiency of TechX Solutions’ Information Systems. Focus on how these tools have addressed challenges related to scalability, cost-efficiency, and collaboration.**

**Answer:**

**Introduction:**

TechX Solutions, a growing mid-sized software development company, faced a turning point in its Information Systems (IS) strategy as it began to experience the limitations of traditional on-premise infrastructure. In its early stages, the company managed well with local servers and conventional software tools, but with growth came complexity. The company began struggling with issues such as slower processing speeds, high maintenance requirements, limited scalability, and restricted remote access to critical data. These challenges not only affected productivity but also posed risks to business continuity and customer satisfaction. Additionally, maintaining physical servers became costly, both financially and in terms of time and technical resources.

To overcome these challenges, TechX Solutions decided to shift to cloud computing, adopting a hybrid cloud model. This model allowed the company to balance the flexibility and scalability of public cloud services with the control and security of a private cloud. By integrating cloud storage, cloud-based development platforms, and virtual cloud infrastructure, TechX Solutions aimed to modernize its IS framework. The transition was not merely a technological upgrade—it represented a strategic move toward future-ready operations. The use of cloud tools opened up new opportunities for cost-efficiency, scalability, and enhanced collaboration, helping TechX stay competitive and agile in a rapidly evolving digital landscape.

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**Q2. InnovateTech Solutions is a leading software development company that has recently shifted its project management methodology from the traditional Waterfall model to Agile. This shift was made in response to the increasing need for faster delivery of high-quality software products, better collaboration among teams, and more flexibility in addressing client needs throughout the development process. The company now employs Agile methodologies for its software projects. Explain how the adoption of the Agile model has benefited InnovateTech Solutions in terms of project delivery speed, quality, and client satisfaction. Discuss the features of any 2 Agile models in brief.**

**Answer:**

**Introduction:**

InnovateTech Solutions, a well-known software development company, recently changed the way it manages projects by moving from the traditional Waterfall model to the Agile model. The Waterfall model is a linear and sequential approach where each phase must be completed before moving to the next. While it has its advantages, it often lacks flexibility and is not ideal for rapidly changing client needs. With the software industry becoming more dynamic and customers demanding quicker, high-quality results, InnovateTech Solutions recognized that it needed a more flexible and responsive approach.

The Agile model offered the company a way to work in smaller, more manageable parts known as iterations or sprints. This change has brought significant improvements in terms of how quickly projects are completed, how well the software works, and how satisfied clients are with the final product. Agile focuses on collaboration, continuous feedback, and the ability to make changes during the development process, which were not easily possible with the Waterfall method. This transformation has helped the company meet deadlines better, respond to customer feedback faster, and deliver products that better match client expectations. Through this shift, InnovateTech Solutions has strengthened its position in the competitive software market.

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**Q3 (A) CloudTech Enterprises is a growing cloud services provider offering a range of products, including data storage, networking solutions, and cloud computing resources. As the company expands its infrastructure, it faces significant challenges in managing its complex network. The company’s traditional networking architecture, which relies on hardware-based devices and manual configurations, has become increasingly difficult to scale and maintain. Network provisioning and adjustments require manual intervention, leading to delays, errors, and inefficiencies. To address these challenges, CloudTech Enterprises has decided to implement Software-Defined Networking (SDN). Discuss the features and benefits of SDN for CloudTech Enterprises.**

**Answer:**

**Introduction:**

CloudTech Enterprises is growing rapidly, offering services like data storage, networking solutions, and cloud computing. As the company expands, managing its network has become a major challenge. The current system uses traditional networking methods, which depend on physical hardware and manual setup. This approach is slow, error-prone, and difficult to scale. Every time the company wants to make a change or expand its services, it has to rely on manual work, which wastes time and resources. To solve this problem and improve its efficiency, CloudTech Enterprises has chosen to adopt Software-Defined Networking (SDN), a more modern and flexible solution.

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**Q3 (B) Discuss the various layers and architecture of SDN which CloudTech Enterprises has implemented.**

**Answer:**

**Introduction:**

As CloudTech Enterprises adopts Software-Defined Networking (SDN) to manage its growing cloud infrastructure, it is important to understand the layers and architecture involved in this technology. Traditional networks combine both control and data functions within the same device, but SDN changes this by separating these functions. This separation makes it easier to manage the network from a central point. SDN architecture is structured into different layers, each having a specific role. These layers work together to simplify network operations, reduce manual work, and allow the company to scale efficiently as its service offerings continue to grow.

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