**IT Infrastructure Management**

**December 2023 Examination**

**1. Based on your experience, elucidate how IT system complexity affects the timeline for implementing new technologies. Advise what steps can be taken to avoid the delay. (10 Marks)**

**Ans 1.**

**Introduction**

The evolution of technology has perennially witnessed a paradox: as systems grow in capabilities, their intricacies multiply, making the very adoption of advancements a herculean endeavor. IT system complexity has its roots in the interconnectedness of applications, the heterogeneity of platforms, and the multifaceted requirements of businesses that have expanded over time. With an increasing demand for sophisticated functionalities and a global drive towards digital transformation, organizations often find themselves at a crossroads. While aiming to embrace the latest technologies, they are simultaneously daunted by the

**2. In order to combat risks, it is important to classify them to devise the best approach to overcome it. Explain the various types of risks and how do you analyze them? (10 Marks)**

**Ans 2.**

**Introduction**

Risks are an inherent part of any organization's operations, particularly within the domain of IT infrastructure management. As technology embeds itself deeper into the fabric of organizational functions, understanding and managing these risks becomes paramount. The increasing complexity and interconnectedness of IT systems means that even a minor disruption or security breach can have significant ramifications, not just technologically but also economically and reputationally. However, not all risks are created equal. Their nature, source, and potential impact can vary widely. Thus, classifying them is crucial. This helps in

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**3. As an IT Head in a large firm, your goal is to consolidate the servers used and also the space required to house these servers. You are championing the concept of virtualization and want to address your team and answer the following questions they have on the topic.**

**a. Establish the need for server virtualization to get your team to understand its importance. (5 Marks)**

**Ans 3a.**

**Introduction**

In today's fast-evolving technological landscape, businesses require increased agility and efficiency to meet ever-changing demands. Server resources, once procured, often remained underutilized, leading to wasted space, energy, and money. Consolidating our IT infrastructure is not just about cutting costs but paving the way for a more resilient, scalable,

**b. Are there any limitations of server virtualization? (5 Marks)**

**Ans 3b.**

**Introduction**

While server virtualization offers a myriad of benefits and has revolutionized the way we perceive and manage IT infrastructure, it is essential to approach the concept holistically. Like any technology, virtualization, despite its advantages, comes with its set of limitations. To make informed decisions for our organization, it's crucial to understand both the strengths