**Information System for Managers**

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

**Internal Assignment Applicable for April 2025 Examination**

**1) An IT Company is working on multiples projects of a client from onsite. One of the Project needs to be delivered within shorter span of time and fixed deadline provided by the client. Discuss what is Software Development Life Cycle (SDLC) and which SDLC model will be implemented to complete this Project with fixed deadline and shorter span. Explain your answer with relevant justifications and examples.**

**Answer:**

**Introduction:**

The Software Development Life Cycle (SDLC) is a systematic process that outlines the phases involved in software development, ensuring that a project is completed on time, within budget, and to the client's satisfaction. These phases typically include requirement analysis, design, implementation, testing, deployment, and maintenance. In projects with fixed deadlines and shorter timelines, selecting the appropriate SDLC model is crucial to meeting client expectations. For such a scenario, the Agile SDLC model is highly recommended due to its iterative approach, flexibility to adapt to changes, and its focus on delivering working software in increments, which ensures faster delivery and continuous client feedback.

The SDLC typically consists of the following stages:

**SDLC Model Selection for a Project with a Fixed Deadline and Shorter Span**

**This is partially solved sample answer**

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**2) Deluxe Jewellery as a startup has started their Jewellery business in Pune city. With the expansion of its business, they have established their offices in various cities of other parts of the country. As Deluxe Jewellery is startup hence, they want to centralize the management of all the operations from one location with a software which can be used by shops of all the locations.**

**Discuss how Cloud Technology can help Deluxe Jewellery to achieve their objectives. Also, explain which Cloud services will be applicable for operating the system centrally.**

**Answer:**

**Introduction:**

Deluxe Jewellery, a growing startup with multiple locations across India, aims to centralize its operations using cloud technology. By leveraging cloud-based software, Deluxe Jewellery can streamline processes, enhance collaboration, and maintain real-time access to business data. This will enable efficient management, cost savings, and scalability while supporting the company's expansion across various cities.

Cloud technology can significantly help Deluxe Jewellery centralize the management of its operations, enabling smooth coordination across different locations. Here’s how it can help:

**Benefits of Cloud Technology for Deluxe Jewellery:**

**Applicable Cloud Services for Operating the System Centrally:**

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**3) An employee at a company receives an email that appears to be from their bank, asking them to update their account details by clicking on a provided link. Later, it is discovered that the link led to a phishing website, and sensitive information was compromised.**

**a) Discuss what could be the possible threats and vulnerabilities which an organization/employee may face.**

**Answer:**

**Introduction:**

In today’s digital world, phishing attacks are a significant security threat that can compromise sensitive information. Employees who unknowingly engage with phishing emails or malicious links expose themselves and their organizations to various risks. These threats can lead to data breaches, financial losses, and reputational damage. Understanding potential threats and vulnerabilities is crucial for safeguarding both individuals and organizations.

**Possible Threats and Vulnerabilities**

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**b) Discuss what could be the security measures to overcome these threats and vulnerabilities.**

**Answer:**

**Introduction:**

Phishing attacks pose a significant threat to both employees and organizations, leading to compromised sensitive information. To mitigate such risks, companies must implement a comprehensive security approach. This includes educating employees, using advanced email filtering tools, enforcing multi-factor authentication, and regularly updating security systems. These measures help protect against phishing and other cyber threats.

**Security Measures to Overcome Threats and Vulnerabilities**

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