**Cloud Computing**

**April 2024 Examination**

**Q1. You are the CIO of a Global Pharma Major. Your firm works very closely – e.g. sharing Confidential Documents (e.g., NDA / ANDA, Clinical Trials, etc.) with your Tier1 and Tier2 Subcontractors. As such, you are evaluating the use of cloud and the right choice for the deployment model for your firm and your Tier1 and Tier2 Subcontractors.**

**Prepare a 2-Page Executive Summary to serve as the basis of an Executive Meeting with the Leadership of your firm and the CIOs to discuss this initiative. (10 Marks)**

**Ans 1.**

**Introduction**

In the rapidly evolving landscape of the pharmaceutical industry, the need for robust, secure, and scalable data management systems is more crucial than ever. As the Chief Information Officer (CIO) of a leading global pharmaceutical company, we stand at the cusp of a transformative decision to enhance our collaboration with Tier1 and Tier2 subcontractors through cloud computing. This initiative is not just about technological advancement; it's a strategic move towards creating a seamless, secure ecosystem for sharing sensitive documents such as Non-Disclosure Agreements (NDA), Abbreviated New Drug Applications (ANDA), and Clinical Trial data. The cloud offers unparalleled benefits in terms of accessibility,

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**Q2. Rustler Software has a mature and popular Accounting software EzeeBooks. You are the CTO and you’re working on the Cloud Strategy for EzeeBooks. Specifically, you are evaluating (a) whether to opt for IaaS, PaaS or SaaS and (b) AWS or Azure. Prepare a 2-Page Executive Summary of your research and recommendations for presentation to the Leadership of Rustler Software. You may get more details by visiting the web site of these firms or you can make your own assumptions. (10 Marks)**

**Ans 2.**

**Introduction**

As Rustler Software embarks on its journey to elevate EzeeBooks, our leading Accounting software, into the cloud, a strategic decision-making process is underway to select the optimal cloud service model and provider. This executive summary encapsulates our comprehensive analysis and deliberation on whether Infrastructure as a Service (IaaS), Platform as a Service (PaaS), or Software as a Service (SaaS) best aligns with our organizational goals, operational efficiencies, and customer satisfaction criteria. Furthermore, it delves into the comparative evaluation of two leading cloud services providers: Amazon Web Services (AWS) and

**Q3. The Top Management of Dhanvantari Hospitals is meeting to discuss their plan for a New Patient Records Management Solution. Both the COO, Mr. Das and the CFO, Mr. Reddy are of the strong opinion that the company should develop and implement a Custom On-Premise Patient Records Management Solution to be developed by a Top5 IT Firm.**

**On the other hand, both Ms. Abraham, Head of Sales, and Mr. Sandhu, CIO are keen to move to a popular SaaS-based Patient Records Management Product. The debate is getting heated as Mr. Das also recalled past IT system implementation failures.**

**a. What arguments can Mr. Das make in favor of in-house Custom On-Premise Patient Records Management Solution? (5 Marks)**

**Ans 3a.**

**Introduction**

The discourse surrounding the future direction of Dhanvantari Hospitals’ Patient Records Management Solution embodies a critical juncture in its operational and technological roadmap. Mr. Das and Mr. Reddy's advocacy for a Custom On-Premise Solution stems from a confluence of strategic, operational, and security considerations. This position is underscored by past experiences and a desire to tailor solutions to the hospital's unique needs.

**b. What arguments can Mr. Sandhu make in favor of a SaaS-based Patient Records Management Product? (5 Marks)**

**Ans 3b.**

**Introduction**

The pivot towards a SaaS-based Patient Records Management Product represents a strategic embrace of agility, innovation, and cost-effectiveness in healthcare IT management. Mr. Sandhu, advocating for this modern approach, underscores the alignment of SaaS solutions with the evolving digital healthcare landscape. This perspective is anchored in the benefits of scalability, ease of implementation, and continuous updates that SaaS platforms inherently