**Cloud Computing**

**December 2024 Examination**

**1. You are invited by the Government of Wakanda to advise on deployment of cloud for their e-governance services. The Government is very keen to reduce the total cost of ownership and increase scalability of its e-governance infrastructure. As such, it is evaluating the use of cloud and the right choice for the deployment model. You have been asked to provide a brief report explaining pros and cons of each cloud deployment model for e-governance systems in Botswana. (10 Marks)**

**Ans 1.**

**Introduction**

Cloud computing has become a crucial technology in enhancing the efficiency and scalability of various sectors, including e-governance. The Government of Wakanda, like many governments globally, aims to leverage cloud computing to streamline operations, reduce costs, and improve public service delivery. The ability to host data and applications on the cloud rather than on-premises infrastructure offers the potential for significant cost savings, improved scalability, and greater flexibility in service delivery. However, the choice of the right cloud deployment model is essential to align with the government’s goals of reducing total cost of ownership (TCO) and maximizing

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**2. You are the VP of IT at Ramgarh Cooperative Bank (RCB), which has been acquired by BiggBank, one of India’s largest banks. Historically, the Management of RCB has been very conservative regarding their IT Dept., which has been regarded as a Support Function & Cost Center. Hence, RCB’s IT Assets, including several critical Legacy Banking Apps are completely On-Premise.**

**As part of the acquisition, the CIO of BiggBank has asked you to prepare a Cloudification Strategy document. This needs to address (almost) complete migration of all On-Premise Assets to the Cloud and as well, address App Modernization / App of the Legacy Banking Apps. This Cloudification Strategy document needs to answer the following questions…**

**a. Which Cloud Services do you intend to use – i.e., IaaS, PaaS and/or SaaS?**

**b. Which Cloud Service Provider do you feel would be the best fit – i.e., AWS, Azure, or Google App Engine?**

**Prepare an Approach Document to serve as the basis of an Executive Meeting with the BiggBank CIO to discuss this initiative. You may get more details by visiting the web site of these CSPs or you can make your own assumptions. (10 Marks)**

**Ans 2.**

**Introduction**

As Ramgarh Cooperative Bank (RCB) transitions following its acquisition by BiggBank, migrating the IT infrastructure to the cloud becomes a critical part of this integration. Historically, RCB has maintained an on-premise IT environment with legacy banking applications that are outdated and inflexible. Moving towards a cloud-based infrastructure can help RCB improve its agility, scalability, and cost-effectiveness. This cloudification strategy will focus on identifying the right cloud services—Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)—to support both the legacy system migration and modernization of banking applications. Additionally, a suitable cloud service provider (CSP) needs to

**3. The Top Management of Hippocrates Pharma is meeting to discuss their plan for a new Production Planning Software. The COO, Mr. Unnithan, and the CFO, Ms. Sinha, are of the strong opinion that the company should develop and implement Customized, On-Premise Production Planning Software to be developed by the Company’s long-term IT Service Provider. This is because Mr. Unnithan feels that the company’s products and processes are unique and need a customized solution.**

**On the other hand, both Ms. Naidu, Head of Sales and Mr. Sandhu, CIO are keen to move to a popular SaaS-based ERP Product and use their Production Planning Module. Mr. Sandhu also intends to use other modules in this ERP for other Departments. The debate is getting heated as Mr. Unnithan also recalled past IT system implementation failures.**

**a. What arguments can Mr. Unnithan make in favor of in-house Custom On-Premise Production Planning Software? (5 Marks)**

**Ans 3a.**

**Introduction**

Mr. Unnithan, the COO of Hippocrates Pharma, strongly advocates for developing a customized, on-premise Production Planning Software. His argument is based on the uniqueness of the company's products and processes, which, in his opinion, require a tailored solution that off-the-shelf SaaS platforms may not adequately address. Additionally, his concerns stem from previous IT system implementation failures that further justify the need for an in-house approach, where the

**b. What arguments can Mr. Sandhu make in favor of a SaaS-based Production Planning Module? (5 Marks)**

**Ans 3b.**

**Introduction**

Mr. Sandhu, the CIO of Hippocrates Pharma, advocates for adopting a SaaS-based ERP system for their Production Planning Module, as it offers several advantages over in-house, custom-built software. He believes that a SaaS solution would provide quicker implementation, scalability, and lower upfront costs while reducing the risks of IT implementation failures. Moreover, the solution could be extended to other departments, enhancing overall business efficiency and promoting