**Information System for Managers**

**December 2024 Examination**

**Q.1) ABC Consulting Group have different departments in their organization. They need to centralize all the activities of the organization using some technology which can ease out the job of managing the activities of all departments individually. Explain the technology which can be implemented by the ABC Consulting Group for integrating and automating all the activities, also discuss any five benefits and challenges of its implementation. (10 marks)**

**Ans 1.**

**Introduction**

In today’s competitive business environment, organizations like ABC Consulting Group require robust systems to streamline and centralize their operations across multiple departments. Traditional methods of managing individual departments manually can lead to inefficiencies, increased costs, and communication gaps. To address these challenges, implementing an integrated technology solution such as an Enterprise Resource Planning (ERP) system is essential. ERP systems allow organizations to automate, integrate, and centralize their core business processes, such as finance, human resources, supply chain, and customer relations, into a single platform. This not only enhances data visibility but also improves decision-making and operational efficiency. With ERP systems, organizations can standardize processes, provide real-time data access, and foster collaboration across departments. However, the

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**Q2. RSG Infotech as a startup has started their IT venture in Pune city. With the expansion of its business in various arenas, they have established their offices in various cities of other parts of the country. As RSG Infotech is startup hence they want to centralize the management of all the operations from one location.**

**Discuss how Software Defined Networking (SDN) can help RGS Infotech to achieve their objectives. Also, explain the various layers of SDN and its functioning. (10 marks)**

**Ans 2.**

**Introduction**

RSG Infotech, a startup in Pune, is rapidly expanding its operations across various cities in India. As their business grows, managing and controlling the IT infrastructure across multiple locations becomes increasingly complex and resource-intensive. Centralizing the management of these operations from one location is crucial to streamline processes, reduce costs, and maintain consistent service delivery. One of the most effective ways to achieve this is through the implementation of Software Defined Networking (SDN). SDN is a modern networking architecture that separates the control plane from the data plane, allowing centralized control over the entire network infrastructur

**Q3. Sumera Manufacturing is into manufacturing of various parts of automobiles. With huge amount of data being generated by the organization in its daily operations, they need to migrate their data at centralized location which can be accessible to all individuals of all branches anytime, anywhere. They contacted a solution providing firm to get solution of the same and were told to shift their business to Cloud wherein, all the operations of different stores can be monitored/detailed out very easily.**

**a. Discuss how shifting/migrating to Cloud technology will help Sumera Manufacturing to smoothen up the process of monitoring details from one location for other stores across various cities. (5 marks)**

**Ans 3a.**

**Introduction**

Sumera Manufacturing, a company involved in automobile parts production, faces challenges in managing and accessing the large volume of data generated from its daily operations. To overcome these challenges, migrating to Cloud technology is an effective solution. Cloud computing allows the centralization of data, making it accessible to employees and managers across all branches, anytime, anywhere. This transition enhances operational efficiency by enabling real-time monitoring, collaboration, and streamlined processes, which are vital for businesses operating across multiple

**b. Discuss which types of cloud and cloud services will be suitable for Sumera Manufacturing. (5 marks)**

**Ans 3b.**

**Introduction**

For Sumera Manufacturing, selecting the appropriate type of Cloud and Cloud services is crucial to meet their operational needs effectively. The choice of Cloud deployment models and services will depend on factors like data security, accessibility, cost, and scalability. Cloud technology offers various deployment options, such as Public, Private, Hybrid, and different service models like Infrastructure as a Service (IaaS