**IT infrastructure**

**Internal Assignment Applicable for June 2020 Examination**

**1. Facebook, Google, Microsoft and other big organizations have large data centers which contain many server farms. Discuss the applications of server farms in various fields of your choice**.

**Answer**: One of the aims of building information systems has been to identify and map basic processes that can be automated to build highly complex systems. Such automation can improve the speed and accuracy of the processes as well as help reduce costs of conducting them. Though this goal has been achieved with large-scale computerisation within organisations across the world, it has led to a consequent increase in the complexity of processes in terms of the nature of involvement of people, departments, and organisations and also in the nature of processes. Server farm which is also called as server cluster is a group of networked servers that are housed in one location. A server farm streamlines internal processes by distributing the workload between the individual components of the farm and expedites computing processes by harnessing the power of multiple servers.

Under server farm, each server is networked to the others and to a central management server. The central server manages the overall operations of these servers such as assigning processes, resource

**2. In today’s context of large data processing needs, programming techniques require efficient and persistent data storage options. State the benefits and explain the applications of Amazon’s data storage solution for cloud computing**.

**Answer**: The Cloud in terms of computer networks and its associated technology supports delivering resources such as computing and storage to customers on demand. Rather than being a new technology in itself, the cloud is a new business model wrapped around new technologies such as server virtualization that take advantage of economies of scale and multi-tenancy to reduce the cost of using information technology resources.

One of the primary uses of cloud computing is for data storage. With cloud storage, data is stored on multiple third-party servers, rather than on the dedicated servers used in traditional networked data storage. When storing data, the user sees a virtual server, that is, it appears as if the data is stored in a particular place with a specific name. But that place doesn’t exist in reality. It’s just an

**3. You are the IT Project Director at Specter Global Technologies. Your role is to mentor the project managers that report into you and guide them on major implementation projects to ensure a smooth go-live and client satisfaction. One of the project managers has informed you that they need to implement server virtualization.**

**a. What steps will you suggest for server virtualization implementation to the project manager?**

**b. To escape any privacy or security concern between servers, which categories can be we classify server roles into?**

**Answer**: a) Server virtualization is a technique where a physical server is distributed among multiple isolated virtual servers using virtualisation software and these virtual servers run a different instance of operating system simultaneously. As each virtual server runs its own operating system and application, the resource utilisation is improved.

**Steps for sever virtualization implementation**

**Process of inventory**: Before implementing virtualization, you need to create the inventory which will include all the resources whether software or hardware. It will also include the information related to Vendor and type of the processor, memory size, type of network including number of ports and

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