**NMIMS Global Access**

**School for Continuing Education (NGA-SCE)**

**Course: Cloud Computing**

**Internal Assignment Applicable for April 2022 Examination**

**1.** You are invited by the Government of Kazakhstan to advise on deployment of cloud for Government-to-Citizens (G2C) 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 Kazakhstan. **(10 Marks)**

**2.** Academy Edutech is a startup being incubated at IIT Delhi. It offers K12 e-Tutoring via cloud. Being a startup, it is unable to afford its own data center and is considering commercially available technology platforms for cloud computing. Specifically, it is evaluating (a) the Cloud Deployment Model and (b) Cloud Service Provider. You are invited to provide a comparison of these choices and recommend the most suitable combination for them. You may get more details by visiting the web site of CSP firms or you can make your own assumptions Its Question only

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**3.** The Top Management of Chettinad Spices is meeting to discuss their plan for a New CRM Solution. Both the COO, Mr. Senthil and the VP of Sales, Mr. Menon are of the strong opinion that the company should implement a Custom On-Premise CRM solution to be developed by the company’s regular IT Partner. On the other hand, both, Mr Naidu, the CIO and Ms Bajwa, CFO are keen to move to a cloud Cloud-based SaaS CRM solution. The debate is getting heated as Ms Bajwa also recalled past IT system implementation failures.

**a.** What arguments can Mr. Senthil make in favor of in-house CRM implementation?

**(5 Marks)**

**b.** What arguments can Mr Naidu make in favor of a Cloud-based SaaS CRM solution?

**(5 Marks)**

**NMIMS Global Access School for Continuing Education (NGA-SCE)**

**Course**: **E-Business Internal Assignment**

**Applicable for April 2022 Examination**

1. Select any 5 sectors/industry in India doing e-business and state the online marketing strategies (any 2) and online marketing tools (any 2) tools used by companies in each of those sector/industry for successful implementation of e-business. **(10 marks)**

2. Select any 10 companies/organizations doing e-business in India and state how implementation of e-CRM (any 5) and e-SCM (any 5) had significant impact on their business in terms of results based on improvements in customer relations and supply chain management **(10 marks)**

3. a) List any 5 ways through which organizations doing e-business can collect data/information about their customers with an example for each **(5 marks)**

b) List any 5 internet marketing tools used by organizations/companies doing E-business in India with an example for each tool **(5 marks)**

**NMIMS Global Access School for Continuing Education (NGA-SCE)**

**Course**: Emerging Technologies: IoT, Augmented Reality, Virtual Reality

**Internal Assignment Applicable for April 2022 Examination**

1. As more and more new technologies get into play; risks will get more concentrated into a common network. The attacks like DDoS can be targeted to any company of any size. So, all companies thinking of innovative technologies deployment must take security very seriously and from the start and at each stage/level. Describe the difference among IoT, AR and VR technologies. Explain the security and privacy concerns related with these technologies and the solution to resolve them. **(10 Marks)**

**2.** India is now getting ready for emerging technologies such as 5G, artificial intelligence, block chain, augmented reality, virtual reality, machine learning & deep learning, natural language processing and robotics. These are going to play a crucial role in the government and industry alike, whether it is planning or decision-making; accelerating development or analyzing deployment, problem solving or product development; discovering new trends or drawing out unknown correlations. With taking example of any company of your own choice, explain the adoption process of Virtual Reality and its paybacks in India. What are the factors which affect the quality and usability of a virtual reality applications? Explain briefly. **(10 Marks)**

**3.** Understanding VR technology and how it can "create emotional-physical responses" is vital, as it allows students to conceptualize how businesses can apply these tools in new ways, such as increasing brand engagement with customers.

**a.** Describe the applications and limitations of AR and VR in education sector on the basis of use cases. **(5 Marks)**

**b.** With providing some real statistical data from authorized resources, explain how investing in Internet of Things (IoT) systems could level up revenue in pharmaceutical industry. **(5 Marks)**

 **NMIMS Global Access School for Continuing Education (NGA-SCE) Course**: Fundamentals of Big Data & Business Analytics **Internal Assignment Applicable for April 2022 Examination**

Meter Reading, etc. to the power segment in North & North-West Delhi. Among other challenges, revenue leakage and power theft were causing a roadblock in Tata Power-DDL's goal to optimize the power supply for consumers at reduced tariffs.

By digitalizing the power distribution systems, Tata Power - DDL opened the doorway to a vast amount of information that was heterogenous and unstructured. With an aim to enhance decision-making and optimize entire utility ecosystem, Tata Power-DDL’s outlook was to employ advanced digital technology like Big Data analytics.

Tata Power-DDL partnered with Hitachi Systems Micro Clinic to leverage their IT X OT expertise for social enhancement. Collaborating with Tata Power-DDL, Hitachi designed a holistic blueprint for the implementation of end-to-end advanced data analysis solutions; deploying world-class technologies to streamline data ingestion from diverse platforms, systematize scheduling of data and execute data engineering on big data along with swift advanced analytics.

By creating an advanced and reliable system architecture for big data analytics using IT X OT, Hitachi provided Tata Power-DDL with an operational advantage by focusing on:

 IT integration objectives

 Solution modifications

 Speedy execution by using efficient operation technology and result optimization

 Power Operation Technology

Thus, improving operational efficiency and accelerating the delivery of true value to the society by curbing power losses and reducing tariffs for consumers.

**a.** In this case, how Big data analytics will enable prevention of revenue leakage in power sector. Which tools can be leveraged for data ingestion, scheduling as well as final

operationalization of analytics?

**b.** How is distributed computing different from parallel computing? Use this context to explain the difference.

**c.** Which analytics methodologies can be used to analyse the business problems mentioned in the case? Which business metrics will be useful to track the possible fallacy in meter reading?

**(10 Marks)**

**2.** State 3 use-cases of business analytics within the banking industry, highlighting usage of descriptive, predictive, and prescriptive analytics. Give an example of how mobile analytics is relevant for the industry and the resultant impact vs. the traditional banking systems.

(10 Marks)

**3.a.** Explain how prescriptive analytics has increasingly been adopted along with big data in the companies. You can also mention the relevant stakeholders in the business who are needed to make this a success. **(5 Marks)**

**3.b**. Mention 2 business examples of prescriptive analytics which are fueled by the Big data and Mobile Analytics revolution with the necessary context and methodology.

**NMIMS Global Access School for Continuing Education (NGA-SCE)**

**Course**: IT Infrastructure Management

**Internal Assignment Applicable for April 2022 Examination**

**1.** Select any three companies in different industries such as banking, retail store, airlines or package delivery that you do business with? How optimal IT Infrastructure in each company use to engage customer, keep the customer informed or create a unique customer experience? **(10 Marks)**

**2.** For a hypothetical organization of selected industry suggest what all optimal IT Infrastructure is required for the rapid growth of the organization. Discussion should contain topics related to server farms, cloud computing, green computing and virtualization along with following components of IT Infrastructure Ecosystem. Propose a suitable IT Infrastructure: **(10 Marks)**

**3.**

**3.a.** In general hotel industry is not regarded as the most high-tech industry, and many hotels companies only cautiously adopt IT Infrastructure and new technologies. As for many guests, the quality of a hotel stay is in the end determined by whether or not they have some chocolates on their pillow at night and whether they get good night’s sleep and a good breakfast. For Modern, the hotel that defined 5000 instances in which a service

encounter can lead to guest dissatisfaction, making the guests’ stay as enjoyable as possible is the most important goal. Offering technological advantages such as self- service check-in kiosks would not be considered appropriate for luxury hotels of this class. On the other hand, tasks that happen “behind the scenes” offer a host of opportunities to use information technologies. One of these applications is Modern’s customer relationship database. Containing records more than 2.5 million guests, this system is designed to store even the most minute guest preference, so that the guest’s next stay can be made even more enjoyable. In addition to information about guest’s favorite newspaper, or preference of room or pillow, even information overheard in a guest’s casual conversation with waiter is entered into database, so a guest who mentions that She/he likes a certain kind of flower might find a vase with bouquet of these on her/his table the next time she/he visits a Modern.

Question. What are the various components of IT infrastructure ecosystem used in the above caselet for achieving rapid growth in the selected industry? How cloud computing will be helpful in the industry discussed in the above caselet? How asset management is done in such kind of industry? (**5 Marks)**

**3.b.** Green computing is a practice of using computing devices so that they can be used efficiently and without causing harm to human beings and environment. The purpose of promoting green computing is to reduce the consumption of energy and to reduce carbon emission (CO2 emission). Suggest few actionable points/ drivers for achieving green data centres and servers. List down few features of green data centres and servers. What are various approaches used for green computing? Explain with the help of real life example. **(5 Marks)**

**NMIMS Global Access**

**School for Continuing Education (NGA-SCE)**

**Course**: IT Project Management

**Internal Assignment Applicable for April 2022 Examination**

**1.** You have just been appointed as the CIO of Godavari Ruchulu – a 75 yr food products

company in South India. Mr Chowdary, the CEO is keen to modernize the IT landscape

of the company by implementing SAP. As a first step, he has asked you for a Project Plan

– from the AS IS situation of disparate legacy systems to the TO BE of Enterprise SAP.Prepare a 2-Page Executive Summary of your Project Plan to serve as a basis for a detailed discussion with Mr Chowdary. **(10 Marks)**

**2.** You are a CONSULTANT to Zamorin Cooperative Bank. You are required to prepare

the RFP to be issued by the Bank to System Integrators for implementing a core Banking

Product – either FLEXCUBE or Temenos and integrating it to Zamorin Cooperative

Bank’s existing Systems - D365 ERP & D365 CRM. Prepare the 3-Page Executive

Summary of the RFP with all requisite sections. For additional information re: the

specific products, you may refer the company websites. **(10 Marks)**

**3.** Mr. Menon, CEO of Frontier Mutual Funds has convened a meeting for the CxOs to

discuss the firm’s IT Strategy Roadmap. At this meeting Ms. Naidu, the newly appointed

CIO has announced her intention to outsource the ongoing Maintenance & Support of

Frontier Mutual Funds’ Brokerage Systems to an IT Firm. Dr. Manjappa, the COO of the

company is skeptical and asks Ms. Naidu if she has considered all the issues involved.

When Mr. Menon, asked him if he had specific concerns, Dr. Manjappa immediately said

"I see two issues that need detailed discussion… (1) How will this affect the Systems’

Performance/Availability and (2) How will we maintain Confidentiality of Information?"

How will Ms. Naidu respond to Dr. Manjappa’s queries on…

**a.** Systems’ Performance/Availability? **(5 Marks)**

**b.** Confidentiality of Information? **(5 Marks)**

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