NMIMS Global Access

School for Continuing Education (NGA-SCE)

Course: Cloud Computing

Internal Assignment Applicable for June 2023 Examination

Assignment Marks: 30

Instructions:

- *All Questions carry equal marks.*

- *All Questions are compulsory*

- *All answers to be explained in not more than 1000 words for question 1 and 2 and for question 3 in not more than 500 words for each subsection. Use relevant examples, illustrations as far as possible.*

- *All answers to be written individually. Discussion and group work is not advisable.*

- *Students are free to refer to any books/reference material/website/internet for attempting their assignments, but are not allowed to copy the matter as it is from the source of reference.*

- *Students should write the assignment in their own words. Copying of assignments from other students is not allowed.*

- *Students should follow the following parameter for answering the assignment questions.*

For Theoretical Answer	
Assessment Parameter	**Weightage**
Introduction	20%
Concepts and Application related to the question	*60%*
Conclusion	*20%*

For Numerical Answer	
Assessment Parameter	**Weightage**
Understanding and usage of the formula	20%
Procedure / Steps	*60%*
Correct Answer & Interpretation	*20%*

1. A software development company is looking for an online ticketing tool to manage the service requests. They are looking for a Software as a Service (SaaS) based tool for this requirement. The IT head is trying to understand the common challenges of SaaS model related to Cloud service provider going out of business, Internet and OS related

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limitations and Loss of control. How can you help understand the IT head about these SaaS challenges? **(10 Marks)**

2. Few educational institutes of a city are looking to migrate some of their services to the cloud for which they are thinking to create a community cloud. A community cloud is an integrated setup that combines the features and benefits of multiple clouds to address the needs of a specific industry. They have set up a forum to discuss the features of the community cloud. You as a consultant are expected to discuss features like Cost-effectiveness, Regulatory compliance, Industry-based security requirements, High availability and More control and prepare a report on the same. Describe key points of your report on the features of the community cloud. **(10 Marks)**

3. ProTech is a company providing Project Management related tools to different organizations. As their business volume is going up their management is thinking about utilizing the existing hardware or using some new technology to provide support to maximum clients. Their CTO suggests two options to achieve the same.

a. ProTech can use hypervisors so that they can use same set of hardware for multiple services. What are hypervisors? Explain Type-1 and Type-2 hypervisors **(5 Marks)**

b. ProTech can move to cloud solutions. Every cloud solution comes with some cyber risk. Describe 3 types of threats related to cyber risks. **(5 Marks)**

    i.   Unintentional threats

    ii.   Natural events

    iii.   Intentional threats

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