

University of Sargodha

Department of Computer Science & IT

Mid Term Spring-2020

Ex-PPP BSIT 8TH

Marks: 30

Date: Apr 08-15, 2020

Course: Cloud Computing

Instructions:

- Read the questions carefully and give brief answers to all questions.
- Understanding of the question is also the part of the exam.

Q#01

[4*4=16]

A company name **TANEED** Decided to provide cloud services to different users depending upon their need. They have decided that they will provide the IaaS, PaaS, SaaS and CaaS services to users. They have surveyed the market and find out that there are so many vendors in the market already providing the same kind of services so they have decided they will provide customized and tailored services with different deployment models. Different cloud services with deployment models can be the best choice to grab the opportunity as they are new in the market. TANEED Enterprise are hiring you as an IT expert to suggest them what kind variations they can provide to sustain as a strong competitor in the market and what can be the alternatives and Why?

According to their survey in the market following vendors are providing services in the market:

- The Vendors L, N, M, T are giving cloud services (IaaS, Pass and CaaS)
- The Vendors P, R, U are providing PaaS and CaaS with private cloud
- The Vendors X, Y, H, Z are providing all cloud services with Public cloud
- Vendors S, T, and V are offering IaaS with the usage community cloud model.

Keeping in mind the scenario and Service vendor in the market answer the following questions and offer the appealing services so that the customers come to you rather than going to your competitors:

1. Mr.Naveed need a system so that they can share related documents with related team to work on as there is Lockdown in the city and employee cannot come to office for work. Is the multi-tenant architecture important for this scenario if Yes then why?
2. The Post-Graduation students and researcher faculty of **University of Sargodha** are doing research on Biological changings **COVID-19** corona virus can create in human body using Big Data + Biotechnology algorithms and are doing some computation intensive task. If they were in university premises they had the opportunity to use University's equipment as test bed but now they cannot do the same due to Lockdown in city. The respected Vice Chancellor needs an alternative solution to overcome the situation and allow the

researchers to continue their research. Being an IT expert give them most suitable solution with some valid reason?

3. A company named **Khan-Enterprise** are thinking about running a business in which they will provide security guards to different individual companies and housing colonies for surveillance and protection. They are interested in some way that they can contact with their employees and track their activities, manage their payrolls and attendance of employees. They have contacted you for getting some solution according to their needs, prove your skills by giving them most appropriate solution and defend your answer why this one others not?
4. **Social Circle** that you are running a website that is subject to wide fluctuations in demand, such as a Event Management system for events. How would you plan for migrating a seemingly-ideal candidate for a cloud platform? Elaborate your suggestion and offering with help of proper reasoning? Hint: You have to use PaaS of cloud by some cloud service provider.

Q#02: Write a summary of minimum two pages on assigned topic (max 20% plagiarism). [10]

Q#03: Viva of assigned topic [04]