

Dr Rajinder Samelhu

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-3 EXAMINATION (May 2019)
B-Tech (8th SEM)

Course Code: 12B1WCI831
Course Name: Cloud Computing
Course Credit: 3

Max. Marks: 35
Max. Time: 2 HRS

Note: All questions are compulsory. Write to the point. Attempt all questions at one place.

Q. No. 1

Discuss following three security and privacy issues with relation to all cloud deployment models. Provide at what level these issues are present in each cloud deployment model and how these can be handled by cloud security administrator. [CO-5] [5 Marks]

1. Lack of Control
2. Lack of Trust
3. Multitenancy

Q. No. 2

OnLive is a company executes video games in the cloud and delivers video stream to resource-poor clients without interrupting the game experience. How different methods available with augmented execution or mobile cloud computing can help OnLive to schedule their task better. [CO-5] [5 Marks]

Q. No. 3

- [CO-4] [2+3 Marks]
- (a) Provide classification of datacentres based on the parameter of Availability.
 - (b) I have an application which is affected by the inter process communication to large extent. What is better option for me to scale up or scale out the cloud resources. Justify your answer.

Q. No. 4

Suppose you worked for a server design company. You noticed that during winter, there were fewer server failures than during warm weather. You also concluded that heat is bad for reliability of components. So, [CO-2] [3+2 Marks]

- (a) What are different methods you are going to adopt for keeping datacentre cool?
- (b) How cooling is going to affects the total power consumption of your datacentre?

Q. No. 5

Define VDI? List major benefits of using VDI for centralizing the IT infrastructure? [CO-4] [5 Marks]

Q. No. 6

Explain in detail with diagram the architecture of Xen Hypervisor. [CO-4] [5 Marks]

Q. No. 7

Create a roadmap for Food Delivery apps like Zomato/Swiggy for adopting cloud computing for performing their activities with better quality of service. State which service model, deployment model, virtualization, QoS metrics will be used by these kinds of apps. [CO-1] [5 Marks]