

9<sup>th</sup> semester Examination  
Subject : Cloud Computing  
2019

1. On which essential concepts cloud computing is based? Discuss various benefits of cloud computing. [14]

OR

- i) Write short notes on: [3x4]  
a) Chatbot  
b) Grid Computing
- ii) How cloud computing is helpful in application development, Big data analysis, collaboration and productivity? [7]
2. What is Open stack? Discuss various components of it. [14]

OR

- i) What is virtualization and what are its key benefits? Discuss bare metal structure. [7]
- ii) Write short notes on: [3.5x2]  
a) Advance load Balancing  
b) Chrome OS
3. (i) Discuss features of Infrastructure-as-a-Service with its benefits and limitations.
- (ii) What is the difference between EC2 and AWS?
- (iii) What is a silo?

OR

- (i) Differentiate between PaaS and SaaS. [7]
- (ii) Discuss some of the component services of Amazon Web Services. [7]
4. (i) What are the various benefits of a private cloud? [7]
- (ii) How to harden a private cloud? [7]

OR

- (i) Discuss various features of public cloud. [7]
- (ii) Write short notes on : [3.5x2]  
a) Cross platform cloud APIs  
b) Hybrid cloud
5. (i) What is firewall? Differentiate between cloud firewall and virtual firewall. [7]
- (ii) What are different challenges in data migration and data security of cloud data? [7]

OR

- (i) Discuss various attacks on SaaS, PaaS and IaaS. [7]
- (ii) Discuss the features required to improve performance of CSG. [7]