

Government College of Engineering, Aurangabad
(An Autonomous Institute of Government of Maharashtra)
B.E. (Computer Science and Engineering) Examination

End Semester Examination Nov 2016

CS448: Cloud Computing

Time: Three Hours

Max Marks: 60

"Verify the Course Code and check whether you have got the correct question paper"

N.B:-

1. All questions are compulsory
2. Figures to the right indicate full marks
3. Assume suitable data if necessary and state it clearly
4. Use of non-programmable calculator is allowed

Question 1: Solve any two questions

- A) State and discuss the concept of cloud data centers. State the general requirement for building a cloud data store. [06]
- B) Discuss the importance of utility computing in Cloud Computing along with its advantage in building cloud solutions. [06]
- C) Discuss Deployment model and categorize different types of clients in cloud computing. [06]

Question 2: Sub-question A is compulsory and solve any one from sub-question B and C

- A) Discuss Identity as a service (IDaaS) in detail. [06]
- B) Discuss Workloads, Pods and Silos. [06]
- C) Discuss open SaaS and Explain Mashup in detail. [06]

Question 3: Solve all questions.

- A) Show how different types of hypervisors are used to provide virtualization and point out the ideal conditions where a specific type of hypervisor is most suitable. [06]
- B) With the help of diagram discuss Emulation, paravirtualization, and full virtualization types. [04]
- C) Point out the two important workload metrics used in LAMP system. [02]

Question 4: Solve any two questions.

- A) Discuss PaaS application frameworks. [06]
- B) State and discuss the benefits of Virtualization. [06]
- C) State and explain the limitations and advantages of PaaS [06]

Question 5: Solve all questions.

- A) In order to evaluate security risks which analysis must be performed on a cloud system? And list out the areas of cloud that more challenging while assessing security risks. [05]
- B) With the help of diagram discuss how creation of storage zones with associated encryption keys is used to protect cloud storage from unauthorized access. [05]
- C) State the reasons for managing the Identities in Cloud. [02]