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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (IT) (E-I 2012 to 2017) (Sem.-6)

CLOUD COMPUTING

Subject Code : BTCS-912

M.Code : 71179

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of TEN questions carrying TWO marks each.
2. **SECTION-B** contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. **SECTION-C** contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly :

1. What is cloud computing?
2. Define Elastic IP Addressing.
3. What are the features of virtualization?
4. Write a short note about desktop virtualization.
5. What is resource provisioning?
6. What are the design challenges in cloud architecture?
7. What is the use of Google file system?
8. What are the mapping applications?
9. Define 'Risk Management'.
10. What is data security?

SECTION-B

11. Explain the security architecture design framework.
12. Write a note on Virtual Machine Security.
13. A Company wants to build a test environment to test software updates and new solutions. The environment should mirror the production environment and be secure and inaccessible from outside the company network. The company does not want to invest in infrastructure that may be idle for a significant amount of time. Which cloud computing model will satisfy all these requirements? Explain.
14. A company is considering a cloud environment to improve the operating efficiency for their data and applications. The company is part of an industry where strict security and data privacy issues are of the highest importance. Which type of cloud would be a good choice and why do you think like that?
15. What are major areas of concern expressed by customers when proposing a multi-tenancy software solution compared to a single-tenancy solution?

SECTION-C

16. Explain the system models for distributed and cloud computing.
17. Compare: Public, Private and Hybrid clouds.
18. What is server virtualization? Explain parallel processing.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.