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Total No. of Pages : 01

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M.Tech.(IT) (2015 &amp; Onwards)/(CSE Engg.) (2015 to 2017) E-I (Sem.-2)

**CLOUD COMPUTING**

Subject Code : MTCS-206

M.Code : 72890

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- 1) a) How MapReduce can be used for the data processing in Large Clusters? Give examples of few Programs that may be expressed as MapReduce computations.  
b) What are the benefits and the challenges in cloud computing? Explain.
2. a) How Infrastructure as a service be used in cloud computing? Explain.  
b) List the different cloud applications available in the market? Briefly explain the scenarios/situations of "when to not use clouds".
3. a) List the prevalent companies and their offerings towards software plus services via Cloud computing.  
b) What is the need of virtualization? Define Server virtualization, Application virtualization, Presentation Virtualization.
4. What are the important issues in the management of cloud services? Explain in detail.
5. a) What is Ganglia monitoring tool? What is its purpose? What is it in anatomy? Explain.  
b) How will you choose cloud-Platform for the business needs? Explain with examples.
6. a) Compare the Public Vs. Private cloud Apps.  
b) What is Cloud NAS? What are its benefits and uses? Explain.
7. a) Compare the traditional software development with development for the cloud.  
b) Explain about the implementation of map reduce concept with a small example.
8. a) What is Big data? What is its need in the contemporary computing needs? How is it different from the structured data? Give examples of Big data.  
b) How IoT, Big data and Cloud computing are getting Combined? Give examples to illustrate your answers.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**