Code No: **R164105D** **R16** **Set No. 1**

IV B.Tech I Semester Supplementary Examinations, February- 2020

CLOUD COMPUTING

(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B
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PART–A *(14 Marks)*

1. a) Explain the need for Parallel computing. [2]
   b) Explain about virtual clusters. [2]
   c) Explain the need for Software as a Service (SaaS). [2]
   d) Explain the advantage of Scalable synchronization. [2]
   e) Explain the necessity of Load balancing with respect to Cloud resource management. [3]
   f) Explain about Advisory locks and Mandatory locks. [3]

PART–B *(4x14 = 56 Marks)*

2. a) Explain in detail about Degrees of Parallelism. [7]
   b) Explain the Critical Cluster Design Issues and Feasible Implementations. [7]

3. a) Discuss about the following
   i) Memory and I/O devices ii) Levels of Virtulization [7]
   b) Explain Basic concept of the CUDA architecture. [7]

4. a) Explain in detail about Inter cloud resource management. [7]
   b) Discuss about Cloud security and thrust management. [7]

5. a) Explain the system issues for running a typical parallel program in either a parallel or a distributed manner. [7]
   b) Discuss about Microsoft Azur. Write its applications. [7]

6. a) Explain a utility-based model for cloud-based Web services. [7]
   b) Explain fair queuing and Start-time fair queuing . [7]

7. a) Discuss about the following
   i) Google File system
   ii) Amazon simple storage service
   iii) Big Table [14]

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