# Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020 **Cloud Computing and its Applications**

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

## Module-1

- 1 Describe the main characteristics and benefits of cloud computing. (04 Marks) With neat diagram, explain the cloud computing reference model. b.
  - (06 Marks) (06 Marks)
  - Explain the technologies on which cloud computing relies.

- 2 Discuss classification or taxonomy of virtualization at different levels. a. (08 Marks)
  - Explain the architecture of Hyper-V and discuss its use in cloud computing. (08 Marks)

## Module-2

- Classify and explain the various types of clouds. 3 (08 Marks)
  - Describe the fundamental features of the economic and business model behind cloud computing. (08 Marks)

- Explain the three types of services that are hosted inside the Aneka container. 4 (08 Marks)
  - b. Describe the features of the Aneka management tools in terms of infrastructure, platform and applications. (08 Marks)

## Module-3

- Describe the two major techniques used for parallel computing with threads. 5 (08 Marks)
  - Explain the major differences between Aneka threads and local threads. (08 Marks)

- 6 List and explain popular frameworks for task computing. (08 Marks)
  - b. Explain the features provided by Aneka for the execution of parameter sweep applications (08 Marks)

### Module-4

- What is data-intensive computing? Explain the open challenges in data-intensive computing. (08 Marks)
  - Explain IBM General Parallel File system (GPFS), Google File System (GFS), and Amazon Simple Storage Service (S3). (08 Marks)

### OR

- 8 Explain the major components of the Aneka Map-reduce programming model. (08 Marks)
  - Describe the architecture of the data storage layer designed for Aneka-Map-Reduce and I/O APIs for handling Map-Reduce files. (08 Marks)

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## Module-5

9 a. Explain Amazon S3 key concepts.

(08 Marks)

b. Describe the core components of Google AppEngine.

(08 Marks)

## OR

- 10 a. Describe how cloud computing technology can be applied to support remote ECG monitoring. (08 Marks)
  - b. Describe three examples of CRM and ERP implementations based on cloud computing technologies. (08 Marks)