

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA – SEMESTER IV – • EXAMINATION – WINTER 2017**

**Subject Code: 2640013****Date: 06-01-2018****Subject Name: Cloud Computing****Time: 02:30 pm to 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define Cloud Computing? Explain the characteristics of Cloud Computing. **07**  
 (b) What do you mean by Virtualization? Explain the taxonomy of virtualization techniques. **07**
- Q.2** (a) Explain the hardware architectures of Parallel Processing. **07**  
 (b) What are the characteristics of the virtualized environment? Explain. **07**
- OR**
- (b) What does the acronym SaaS means? How does it relate to cloud computing? **07**
- Q.3** (a) What are the most relevant technologies for distributed Object Programming? **07**  
 (b) What are the fundamental advantages brought by cloud technology to scientific applications? **07**
- OR**
- Q.3** (a) Explain the information management and storage services provided by Amazon Cloud. **07**  
 (b) Explain the difference between Full Virtualization and Para Virtualization in detail. **07**
- Q.4** (a) Describe High-level system architectural framework for green cloud computing. **07**  
 (b) Explain the advantages of the service oriented Computing in detail. **07**
- OR**
- Q.4** (a) Explain the role of Promise<T>, data convertor and marshaling while data exchange between Activities and Workflows. **07**  
 (b) Write short note on the following **07**  
     (i) Amazon Machine Image  
     (ii) Amazon CloudFront
- Q.5** (a) (i)What are workers and deciders in Amazon Simple Workflow Service? Define with Example. **04**  
 (ii)What is registration in SWF? Explain annotation Workflow Registration Options in detail. **03**  
 (b) What are the most important advantages of cloud computing technologies for social networking applications. **07**
- OR**
- Q.5** (a) (i)Explain the following annotations of SWF **03**  
     1. @NoWait  
     2. @Execute  
     3. @Workflow  
 (ii) Explain Amazon SWF Timeout Types? **04**  
 (b) What is Cloud Federation? What are the motivations leading to the creation of a Federation? **07**

\*\*\*\*\*