

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (Old) EXAMINATION – WINTER 2019****Subject Code: 170704****Date: 03/12/2019****Subject Name: Advance Computing Technology****Time: 10:30 AM TO 01:00 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) Explain SaaS in detail with example. **07**
(b) Write a short note on cloud computing. **07**
- Q.2** (a) What are the Cloud Service Model? Explain each in brief. **07**
(b) Explain Single system Image in Cluster Computing. **07**
- OR**
- (b) Explain Infrastructure As Service in detail. **07**
- Q.3** (a) Write a short note on Grid computing. **07**
(b) Explain Cluster Classification in detail. **07**
- OR**
- Q.3** (a) Explain important role of Grid middleware. **07**
(b) Explain important role of Cluster middleware. **07**
- Q.4** (a) Explain scalable parallel computer architecture in detail. **07**
(b) What is RMS(Resource Management and Scheduling)? Write services provided by RMS. **07**
- OR**
- Q.4** (a) Explain security policy in Cluster. **07**
(b) Define the term: Cloud. Compare Cloud provider and traditional IT service provider. **07**
- Q.5** (a) Short note on Grid resource Brokers and Schedulers. **07**
(b) Explain Platform as a Service in Cloud Computing. **07**
- OR**
- Q.5** (a) Explain Inter Grid Protocol. **07**
(b) Explain OGSA(Open Grid Service Architecture) in detail. **07**
